

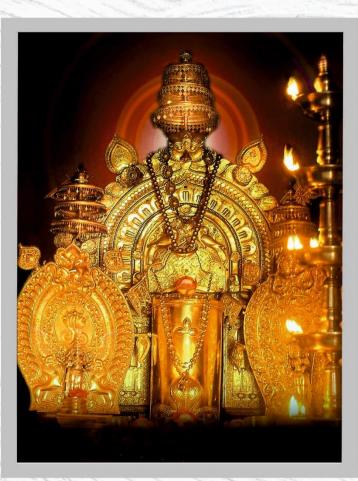
Ordinance Governing MBBS Degree Course Phase III Part - II Curriculum 2022-23

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 : 2022-23

Shri Dharmasthala Manjunatheshwara University,

Manjushree Nagar, Sattur, Dharwad - 580 009, Karnataka, India Phone: 0836-2321127 email: sdmuo@sdmuniversity.edu.in

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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.
- 2. 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 as hindrance.



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! Om Shanti||



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

Date: 19-09-2020

NOTIFICATION

Ordinance governing Curricula of MBBS Professional Year III

- Ref: 1. NMC Regulations on Graduate Medical Education (Amendment) 2019 (Ref. No. MCI-34(41)/2019-Med./161726 dated: 4th November, 2019)
 - 2. 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
 - 4. 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 Manjunatheshwara 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

DISCLAIMER

This curriculum booklet has been framed as per the guidelines issued by the National Medical Council and is subject to modifications as and when the National Medical Council amends the aforesaid guidelines.

INDEX

GENERAL MEDICINE	1
GENERAL SURGERY	
OBSTETRICS & GYNAECOLOGY	64
PAEDIATRICS	90
ORTHOPEDICS	142
DERMATOLOGY, VENEREOLOGY & LEPROSY	

GENERAL MEDICINE

1. <u>GOAL</u>

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 patho-physiologic 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:

- Competently interview and examine an adult patient and make a clinical diagnosis
- 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,
- Independently perform common medical procedures safely
- Document his/her observations accurately,
- Follow up patients with medical problems and refer whenever required,
- Communicate effectively, educate and counsel the patient and family,
- Manage common medical emergencies and refer when required.

2.3. Attitude & 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. 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

THEORY	Teaching-Learning Method	No. of Hours
A	Large Group Teaching (LGT)	70
В	Small Group Teaching (SGT)	125
C Self-Directed Learning (SDL)		15
	Total	210

PRACTICAL	Teaching-Learning Method	No. of Weeks
Α	Bedside Clinics	8+4
	Total	12

OTHERS	Teaching-Learning Method	No. of Hours
A	AETCOM	1+2+2=5
В	Pandemic Module	6+4=10
С	Skill Lab	12
	Total	27

4. COURSE CONTENT

3.1. Theory

3.1.1. Large Group Teaching (LGT) Large Group Teaching (LGT) Theory Classes

Larg	Large Group Teaching (LGT) Theory Classes				
SI.	Topic: Competency (Number &	Competency number	No. of		
No	Details)		Hours		
1	Pathophysiology of the	IM12.1, IM12.2, IM12.3, IM12.4	1		
	hypothalamo-pituitary -				
	thyroid axis, principles of				
	thyroid function testing and				
	alterations in hypo and				
	hyperthyroidism				
2	Hypothyroidism	IM 12.1, IM12.2, IM12.3, IM12.4	1		
3	Hyperthyroidism	IM 12.1, IM12.2, IM12.3, IM12.4	1		
4	Grave's disease	IM 12.1, IM12.2, IM12.3, IM12.4	1		
5	Diabetes – definition,	IM 11.1, 11.2,11.3,11.4 11.10	1		
	classification, risk factors,				
	clinical features				
6	Diabetes mellitus	IM 11.16, 11.17, 11.18	1		
	Investigations, treatment and				
	monitoring for diabetes				
	mellitus, treatment of diabetes				
	mellitus.				
7	Diabetic emergencies	IM 11.6, IM 11.9	1		
8	Microvascular and	IM 11.5	1		
	macrovascular complications				
	of diabetes				
9	Hypertension-Epidemiology,	IM 8.1,8.2, 8.3, 8.4, 8.5 (Patho,			
	prevalence, pathophysiology	Physio)			
	including genetic basis,				
	definition, classification of				
	Hypertension.				
10	Hypertension	IM 8.12, 8.13 IM 8.14 (Pharmac)			
	Management pharmacological				
	and non-pharmacological				
11	Secondary hypertension	IM 8.5, 8.7, 8.11,8.12			

-		
12	Hypertensive crisis- urgency	IM 8.6, 8.8, 8.15
	and emergencies	
13	Presenting problems in heart disease: Chest pain, severe prolonged chest pain, cardiac arrest, Dyspnoea, fatigue, syncope,	IM2.8, IM 2.9
	palpitations	
14	Heart failure 1 - epidemiology, pathogenesis, common causes, stages, classification, precipitating factors	IM1.1, 1.2,1.4, 1.5, 1.6, 1.7
15	Heart failure 2- clinical features, investigations, non- pharmacological and pharmacological management and surgical management of heart failure	IM 1.19, 1.23, 1.24, 1.25
16	Rheumatic fever Describe and discuss the clinical presentation and features, diagnosis, recognition and management of acute rheumatic fever	IM 1.9
17	valvular heart disease (including RHD) 1 – clinical features, diagnosis, management and penicillin prophylaxis	IM 1.3, 1.20, 1.27
18	valvular heart disease (including RHD) 2 – clinical features, diagnosis, management and penicillin prophylaxis	IM 1.3, 1.20, 1.27

19	Congenital heart diseases	IM 1.28	
	presenting in adults- causes		
	Differentiation between		
	cyanotic and non cyanotic		
	CHD		
20	Cardiomyopathies, pericardial	IM1.1, 1.2	
	diseases		
21	Atherosclerosis	IM 2.1, 2.3	
	Discuss epidemiology, lipid	IM 2.18	
	cycle, etio-pathogenesis, for		
	atherosclerosis and IHD		
	Management of dyslipidemia		
	Non pharmacological and		
	pharmacological Management		
	of dyslipidaemia		
22	Risk factors, risk stratification	IM 2.2, 2.4	
	for coronary artery disease and		
	preventionDiscuss modifiable		
	and non-modifiable risk		
	factors for atherosclerosis.		
	Discuss the natural history,		
	evolution and complications of		
	atherosclerosis and IHD		
23	Acute coronary Syndrome	IM 2.5, 2.14, 2.15, 2.16, 2.17, 2.20	
	[NSTEMI]- clinical		
	presentation, natural history		
	and outcome		
	Investigation and management		
	of acute coronary syndrome		
24	Acute coronary Syndrome	IM 2.5, 2.14, 2.15, 2.16, 2.17, 2.20	
	[STEMI]- clinical presentation,		
	natural history and outcome		
	Investigation and management		
	of acute coronary syndrome		
	of abute obtenary officiente		

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	IM 2.19
•	
Ū.	
	IM 2.19
Brain Anatomy, Functions And	IM 18.1, 19.1
Blood Supply : Cerebral Cortex	
And Locomotor System	
Parenchymal infections of the	SDM competency
nervous system	
epilepsy	SDM competency
Nutritional disorders of CNS	SDM competency
Spinal cord disorders	SDM competency
Acute flaccid paralysis	SDM competency
Peripheral neuropathies	SDM competency
Parkinsonism : Features,	IM 19.8
Treatment [Drugs,	
Classification, Indications,	
Dose, Side Effects And	
Interactions]	
Cerebellar disorders	SDM competency
Bladder dysfunction	
Approach to a patient with	IM 18.1, 18.2, 18.9, 18.11, 18.16
stroke	
Ischemic Cerebrovascular	IM 18.1, 18.2, 18.9, 18.11, 18.16
accidents- Types,	
Etiopathogenesis, Risk	
Factors, Features And	
Management [Initial	
Supportive Therapy + Specific	
Treatment]	
Multidisciplinary Management	
In Stroke	
	Blood Supply : Cerebral Cortex And Locomotor System Parenchymal infections of the nervous system epilepsy Nutritional disorders of CNS Spinal cord disorders Acute flaccid paralysis Peripheral neuropathies Parkinsonism : Features, Treatment [Drugs, Classification, Indications, Dose, Side Effects And Interactions] Cerebellar disorders Bladder dysfunction Approach to a patient with stroke Ischemic Cerebrovascular accidents- Types, Etiopathogenesis, Risk Factors, Features And Management [Initial Supportive Therapy + Specific Treatment] Multidisciplinary Management

39	Hemorrhagic Stroke: Intitial	IM 18.14, 18.15
0,	Management And Role Of	
	Surgery	
40	Stroke In Young : Definition	IM 18.10
	And Appropriate	
	Investigations	
41	revision	SDM competency
42	PRESENTING PROBLEMS IN	IM 10.7
	RENAL DISEASES-oliguria,	
	edema, hypertension,	
	hematuria, dysuria, loin pain,	
43	AKI- definition, staging,	IM 10.1-10.4, 10.12
	classification, clinical features,	IM 10.4, 10.15, 10.16, 10.17
	complications, investigations ,	
	treatment	
44	AKI: ATN, AIN, AGN,	IM 10.1-10.4, 10.12
	Cardiorenal syndromes	IM 10.4, 10.15, 10.16, 10.17
45	CKD	IM10.5, 10.6, 10.7, 10.8, IM 10.10,
		10.11, 10.15, 10.16, 10.18, 10.19,
		10.20, 10.23, 10.24
46	Disorders of calcium	IM 22.1, 22.2, 22.3, 22.4
	metabolism	
47	Disorders of sodium	IM 22.5, 22.6
	metabolism	
48	Disorders of potassium	IM 22.7, 22.8
	metabolism	
49	Disorders of acid base	IM 22.9, 22.10, 22.11, 22.12
	metabolism	
50	revision	SDM competency
51	Sociodemographic changes in	IM 24.18, 24.19, 24.20, 24.21
	the elderly population and	
	ethical issues	
52	Nutritional disorders in the	IM 24,22
50	elderly	
53	Common problems in elderly	IM 24.1, 24.2, 24.8, 24.12, 24.13,
	:frailty, urinary incontinence,	24.14, 24.16
	constipation, ADR and	
	polypharmacy	

54	Falls and fractures in elderly	IM 24.12, 24.13, 24.14
55	Common problems in elderly	IM 24.8, 24.12, 24.13, 24.14, 24.16
	falls osteoporosis,	
	degenerative joint disease	
56	Delirium/ Altered Mental	IM 24.3, 24.5, 24.6, 24.7
	Status, depression, personality	
	changes and dementia in the	
	elderly	
57	Approach to a patient with	IM 7.3, 7.4, 7.5, 7.6, 7.7, 7.8
50	joint pain	
58	Crystalline	IM 7.1 ,7.2
	Arthropathies::Pathophysiolog	,7.10,7.11,7.13,7.14,7.15,,7.17,7.18,7. 19,7.20
	y, Genetic Basis ,Clinical Features, Manifestations	19,7.20
	,Diagnosis And Management	
59	Rheumatoid arthritis	IM 7.1 ,7.2
	pathophysiology, genetic	,7.10,7.11,7.13,7.14,7.15,7.17,7.18,7.
	basis,clinical approach,	19,7.20
	systemic manifestations	
	disease, diagnosis and	
	management	
60	Seronegative Arthritis	IM 7.1 ,7.2
	:Pathophysiology, Genetic	,7.10,7.11,7.13,7.14,7.15,7.17,7.18,7.
	Basis ,Clinical Features,	19,7.20
	Manifestations ,Diagnosis And	
61	Management	IM 7 1 7 2
01	Systemic lupus erythematosus pathophysiology, genetic basis	IM 7.1 ,7.2 ,7.10,7.11,7.13,7.14,7.15,7.17,7.18,7.
	clinical approach, systemic	19.7.20
	manifestations disease,	13,7.20
	diagnosis and management	
62	Systemic sclerosis	IM 7.1 ,7.2
	pathophysiology, genetic basis	,7.10,7.11,7.13,7.14,7.15,7.17,7.18,7.
	clinical approach, systemic	19,7.20
	manifestations disease,	
	diagnosis and management	
63	revision	SDM competency

64	Screening for common malignancies	IM13.1, 13.2, 13.3, 13.413.
65	Paraneoplastic syndromes	IM13.1, 13.2, 13.3, 13.413.
66	Principles of treatment of malignancies	IM13.1, 13.2, 13.3, 13.413.
67	Haematological malignancies	IM13.1, 13.2, 13.3, 13.413.
68	Lymphoreticular malignancies	IM13.1, 13.2, 13.3, 13.413.
69	Common lung cancers IM13.1,	IM13.1, 13.2, 13.3, 13.413.
	13.2, 13.3, 13.4,	
70	revision	SDM competency

Small Group Teaching (SGT)

	Small Group Teaching (SGT) Small Group Teaching (SGT)					
	Tutorials / Seminar / Group discussions etc.					
Topic number And description SI. No		Topic: Competency Details	Competency Number	No. of Hours		
	1	Interpretation of thyroid function tests	IM12.9, 12.11	2		
	2	Thyroid disease and pregnancy	SDM competency	2		
	3	Describe and discuss the iodisation programs of the government of India	IM12.12	2		
	4	Cushing's syndrome and Addison's disease	SDM competency	2		
	5	Treatment of diabetes mellitus OHAs Monitoring and compliance	IM11.16, IM11.17, IM11.18, IM11.20, IM11.21,	2		
	6	Treatment of diabetes mellitus: insulin therapy. Monitoring and compliance	IM11.19,	2		

	1	1	1	
		Classification and	IM 8.1,8.2, 8.3,	-
	7	diagnosis of	8.4, 8.5	2
		hypertension		
	8	treatment of essential	IM 8.12, 8.13	2
	5	hypertension	IM 8.14	~
	9	Hypertensive urgency	IM 8.6, 8.8,	2
	9	and emergency	8.15	Z
	10	Differential diagnosis	IM 2.8, 2.9	2
	10	of chest pain	1111 2.0, 2.9	Z
		Approach to a patient	CDM	
	11	with shortness of	SDM	2
		breath	competency	
		Definition,		
		pathophysiology,		
	10	clinical features,	IM1.1, 1.2,1.4,	0
	12	diagnosis and	1.5, 1.6, 1.7	2
		management of heart		
		failure		
	10	Management of heart	IM 1.19, 1.23,	0
	13	failure	1.24, 1.25	2
	14	Infective Endocarditis	IM1.21, 1.22	2
	15	Cardiac	11.1.0	0
	15	tachyarrhythmias	IM1.8	2
	16	Cardiac brady	IN41 0	0
	16	arrhythmias	IM1.8	2
		Deep vein thrombosis	CDM	
	17	and pulmonary	SDM	2
		embolism	competency	
	10	Management of	100.10	0
	18	dyslipidaemia	IM2.18	2
	10	Cardiovascular risk		<u>^</u>
	19	stratification	IM2.6	2
		Coronary vascular		
	00	disease- approach to		0
	20	stable and unstable	IM2.8	2
		angina		
l	I	9 ·		

21	Investigations in coronary vascular diseases including lipid profile, CXR, ECG, Cardiac markers 2D- ECHO, TMT, CAG in IHD	IM 2.10, 2.11, 2.12	2
22	Cardiac rehabilitation	IM2.24	2
23	Diseases of the aorta	SDM competency	2
24	Stupor, coma and brain death	SDM competency	2
25	Disorders of speech	IM18.7	2
26	Spinal cord disorders	IM18.6	2
27	Extrapyramidal Movement disorders	IM19.1, 19.2, 19.8, IM19.9	2
28	Disorders of gait	IM19.3,19.4, 19,5, 19.6, 19.7	2
29	epilepsy	SDM competency	2
30	Recognizing TACS, PACS, LACS AND POCS by clinical features and radiology	IM 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9	2
31	TIA, Cardioembolic strokes,	IM18.2	2
32	lacunar infarcts, Cortical venous thrombosis	IM18.2	2
33	Management of ischemic stroke	IM18.11, 18.12, 18.13, 18.16, 18.17	2
34	Assessment of a patient with renal failure using laboratory and ultrasound methods	IM10.19	2

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		Calculation of doses		
	35	of common drugs as	IM10.25	2
		per renal status		
	36	Prevention of CKD	IM10.26	2
		Disorders of calcium,		
	37	phosphorus and	IM22.1, 22.2,	2
	37	magnesium	22.3,	Z
		metabolism		
	38	hyponatremia	IM22.5, IM22.6	2
	39	Hypokalaemia and	Im26 7 22 9	2
	57	hyperkalemia	lm26.7, 22.8	
	40	Arterial blood gas		2
	40	analysis	IM22.13	۷
	41	Comprehensive	IM24.2	2
	41	geriatric assessment	111/24.2	۷.
		Approach to a patient	IM7.3, 7.4, 7.5,	
	42	Approach to a patient	7.6, 7.7, 7.8,	2
		with joint pain	7.9	
		Investigations and	IM7.14, 17.15,	
	43	interpretation of		2
	40	rheumatologic	17.16, 17.17	۷.
		disorders		
		Disease modifying		
		therapy and	IM7.18, 7.19,	
	44	biologicals in	IM7.18, 7.19, IM7.20	2
		rheumatologic	1117.20	
		diseases		
	45	Diabetic ketoacidosis	IM11.23	2
	46	Hypertensive	IM 8.6, 8.8,	2
	40	emergency	8.15	<u>ــــــــــــــــــــــــــــــــــــ</u>
	17	Management of check	SDM	2
	47	Management of shock	competency	
	48	Management of acute	SDM	2
	40	pulmonary edema	competency	
		Management of acute		
	40	myocardial infarction	IM 2.5, 2.14,	n
	49	and mechanical	2.15, 2.16,	2
		complications post mi	2.17, 2.19, 2.20	

50	Emergency management of acute severe asthma	SDM competency	2
51	Principles of oxygen therapy	IM3.17	2
52	ARDS	SDM competency	2
53	Mechanical ventilation	SDM competency	2
54	Upper gastrointestinal bleed	IM 15	2
55	Principles of blood transfusion	IM9.17	2
56	Organophosphorus poisoning	IM21.1	2
57	Status epilepticus	SDM competency	2
58	Needle stick injuries	IM6.17	2
59	Interpretation of ABG	IM22.13	2
60	Drugs and charts	SDM competency	2
61	Instruments	SDM competency	2
62	X-rays and scans	SDM competency	2
63	ECGs	IM 1.18, 2.10, 8.17	1

	Self Directed Learning (SDL)				
SI. No	Topic: Competency (Details)	Competency numbers	No. of Hours		
1	Clinical features of the cancer patient	IM13.7, 13.8, 13.9, 13.10,			
2	The 10 hallmarks of cancer, environmental and genetic determinants	IM 13.1, 13.2, 13.3, 13.4			
3	Investigations and staging of cancers	IM13.11, 13.12, 13.13, 13.14, 13.12			
4	Acute oncology	IM IM13.5, 13.6, IM13.14			
5	Therapeutics in oncology	IM13.14			
7	Specific cancers	IM13.4			
8	Survivorship	IM13.16, 13.17, 13.18, 13.19			
9	Good medical practice	Topic IM 26			
10	Clinical decision making	Topic IM 26			
11	Clinical therapeutics and good prescribing	Topic IM 26			
12	Clinical immunology	IM7.1, 7.2			
13	Medicine in austere environments	SDM competency			
14	Population health and epidemiology	SDM competency			
15	Palliative care and pain management	Topic IM 26			

Practical

	1.2. Bedside Clinics		
	Bedside Clinics		
SI. No	Topic: Competency details [case presentations include data gathering by history, examination, investigations AND differential diagnosis, plan of management, plan of prevention, plan of follow up, palliative measures as applicable, patient education]	Suggested TL Method- bedside clinics/DOAP	No. of Hours As required
1	Case presentation-hypothyroidism	IM12.5, 12.6, 12.7, 12.8, 12.9, 12.10, 12.11, 12.14	
2	Case presentation- hyperthyroiodism	IM12.5, 12.6, 12.7, 12.8, 12.9, 12.10, 12.11, 12.14	
3	Case presentation-diabetes mellitus	IM11.7, IM11.8, 11.9, 11.10, 11.11	
4	Case presentation-diabetic foot DOAP- subcutaneous insulin administration	IM11.7, IM11.8, 11.9, 11.10, 11.11, IM11.19	
5	Case presentation- diabetic emergency	IM11.9, IM11.14, IM11.15, IM11.22, IM11.23, IM11.24	
6	Skill lab and certification-Perform and interpret a capillary blood glucose test 2 Perform and interpret a urinary ketone estimation with a dipstick 2	IM11.12 IM11.13	
7	Case presentation- hypertension	IM8.9, 18.10, 18.11, 18.12, 18.13, 18.14, 18.15, 18.16, 18.18, 18.19, 18.20	
8	Case presentation- hypertensive emergency	IM8.15	
9	Case presentation -differential diagnosis for chest pain	IM2.8	
10	Case presentation -differential diagnosis for dyspnoea	SDM competency	
11	-case presentation of acute coronary syndrome- discharge plan and advice at follow-up, Cardiac rehabilitation	IM2.6, 2.7, 2.8, 2.9 IM2.24	
12	Certifiable skill IM2.10 Order, perform and interpret an ECG Bedside clinic, DOAP Session IM1.18 Perform and interpret a 12 lead ECG	IM2.10, 1.18	

13Case presentation-heart failureIM1.10, 1.11, 1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.18, 1.1914Case presentation-atrial fibrillationIM1.815Case presentation-RHD-mitral valve diseaseIM1.2016Case presentation-common congenital heart diseaseIM1.2017Case presentation-common congenital heart diseaseIM1.2018BLS-ACLS certifiable skillsIM2.21, 2.2219History taking in CNSIM17, 18, 1920Examination of CNS: higher mental functions And signs of meningeal irritationIM17, 18, 1921Examination of CNS: motor system and reflexesIM17, 18, 1922Examination of CNS: sensory system and cerebellar systemIM17, 18, 1923Examination of CNS: extrapyramidal functionsIM 1924Examination of CNS: extrapyramidal functionsIM1825Case presentation-ParalplegiaIM17, 18, 1929Case presentation-Parkinson's diseaseIM1720Skill lab-lumbar puncture and CSF analysisIM1721Assessment of a patient with chronic kidney injuryIM 10.2123Skill lab ABG Peripheral intravenous catheterIM 10.2134Skill labIM 10.2135Skill labIM 10.2236Observing hemodialysis using a checklist Patient education in CKDIM 10.2236Geriatric assessment toolIM24.237Case presentation-geriationCompetency36Geriatric assessment toolIM24.2 <tr <td=""></tr>			IM1 10 1 11 1 12
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36 Geriatric assessment tool IM24.2	35		
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	37	Case presentation- elderly patient with fraility	IM 24

38	Case presentation- rheumatoid arthritis	IM 7
39	Case presentation- lymphoreticular malignancy	IM 13
40	Case presentation- palliative care	IM 13, IM 26
41	Case presentation-anemia	IM 9
42	Case presentation-cirrhosis of liver	IM 5
43	Case presentation-malnutrition	IM 23
44	Case presentation-pneumonia	IM 3
45	Case presentation-asthma	SDM competency
		Integrate with TB and
		chest
46	Case presentation-COPD	SDM competency
		Integrate with TB and
		chest
47	Case presentation-pleural effusion	SDM competency
		Integrate with TB and
		chest
48	Case presentation-pneumothorax	SDM competency
		Integrate with TB and
		chest
49	Case presentation- cavitary TB and lung fibrosis	SDM competency
		Integrate with TB and
		chest
50	Case presentation-splenomegaly	SDM competency
		Integrate with
		pathology
51	Case presentation-hepatosplenomegaly	IM 5
52	Case presentation-Bell's palsy	SDM competency

3.1.3. Clinical Clerkship / Evening Clinics

Day	Торіс	Suggested TL Method
1	Type 2 diabetic patient	OPD presentation
2	Approach to a patient with diabetic coma	Evening Clinics
3	Essential hypertension	OPD presentation
4	Approach to a patient with hypertensive emergency	Evening Clinics
5	Heart failure	OPD presentation
6	Approach to a patient with acute pulmonary edema	Evening Clinics
7	ECG	OPD presentation
8	COPD	OPD presentation
9	Approach to a patient with acute severe asthma	Evening Clinics
10	Approach to a patient with acute chest pain/acs	Evening Clinics
11	Approach to a patient with cardiac arrhythmia	Evening Clinics
12	Approach to a patient with stroke	Evening Clinics
13	Approach to a patient with altered sensorium	Evening Clinics
14	Approach to a patient with neuroinfection	Evening Clinics
15	Epilepsy	OPD presentation
16	Parkinson's disease	OPD presentation
17	Approach to a patient with status epilepticus	Evening Clinics
18	Approach to a patient with sepsis	Evening Clinics
19	Approach to a patient with poisoning	Evening Clinics
	Approach to a patient with envenomation	
20	Approach to a patient with hepatic encephalopathy	Evening Clinics
	and gastrointestinal bleeding	
21	Approach to a patient with electrolyte abnormality	Evening Clinics

3.1.4. Skill Lab

Skill Lab			
SI. No	Topic: Competency (Number & Details)	No. of Hours	
1	Administration of IM injection IM 1.30 (log book) integration- Pharmacology	1.5	
2	BLS- perform and demonstrate IM 2.22	1.5	
3	Collecting specimen for blood culture IM 1.22	1.5	
4	Interpret ECG IM 1.18, 2.10, 8.17	1.5	
5	Technique of LP on a Mannequin 17.8	1.5	
6	Common Malignancies: IM13.16 Demonstrate An Understanding And Needs And Preferences Of Patients When Choosing Curative And Palliative Therapy	1.5	
7	Common Malignancies: IM13.19 Describe The Therapies Used In Alleviating Suffering In Patients At The End Of Life	1.5	
8	11.30-1 PM Skill Lab Male Urinary Catheterization Female Urinary Catheterization	1.5	
9	Peripheral Iv Catheter IM 10.21	1.5	
10	ABG 10.20, MICU	1.5	
11	Insertion Of Central Venous Or A Dialysis Catheter 10.22 Dialysis Unit	1.5	
12	Communication Lab Communicate Diagnosis Treatment Plan And Subsequent Follow Up 10.23 Counsel Patients On A Renal Diet 10.24 Dialysis Unit	1.5	
13	Deliberate Practice	1.5	

3.1.5. Certifiable Skills

	Certifiable Skills			
SI. No	Skills that require certification	Criteria for certification	No. of Attempts	
	IM2.10 Order, perform and interpret an ECG Bedside		3+3=6	
1	clinic, DOAP session IM1.18 Perform and interpret a 12			
	lead ECG OPD			
2	IM2.22 Perform and demonstrate in a mannequin BLS		1	
ſ	IM11.12 Perform and interpret a capillary blood glucose		2	
3	test			
4	IM11.13Perform and interpret a urinary ketone estimation		2	
4	with a dipstick			

3.2. AETCOM Module

	AETCOM Module			
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours	
1	4.1. The foundations of communication (Includes a skill session of two hours)	As per module	5 (1+2+2)	

3.3. Pandemic Module

	Pandemic Module								
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours						
1	4.1. Care of patients during Pandemics	As per module	6						
2	3.4. Palliative Care during Pandemics	As per module	4						

4. SCHEME OF EXAMINATION

4.1. Eligibility Criteria

- Students must secure at least 50% 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 Summative / University examination.
- Student should have a minimum of 75% attendance in Theory and 80% in Practical classes to be eligible to appear for Summative / University examination.
- Student must have completed the required certifiable competencies and completed the log book

4.2. Internal Assessment

4.2.1. Theory

- Multiple (a minimum of two) Internal Assessments (IA) will be conducted.
- The last IA will be conducted as Preliminary examination, which will mirror the university exams in marks and pattern.
- The final IA marks will be derived based on the table given below.
- The blueprint of all the IAs is also given in the table below.

	DEPA	RTMEN	IT OF GE	NERAL	MEDICI	NE									
	Integrated phase-wise Internal Assessment														
	THEODY	Pha	ase 2	Phas	e 3-1	Phas	e 3-2	Final Total							
	THEORY		IA-2	IA-3	IA-4	IA-5	IA-6								
W	Theory	30	25	30	25	75	75								
Writ ten	MCQ	10	10	10	10	20	20								
ten	AETCOM*	-	05		05	05	05								
	Formative assessment:														
	SDL/Class tests/ MCQs/	05	05	05	10	10	10								
FA	Tutorials/ Seminars/	05	05	05	10	10	10								
	Assignments														
	Logbook	05	05	05	10	10	10								
	Total	50	50	50	60	120	120	450							
	FINAL THEOR	Y IA MA	RKS = 1	50 (fina	l total d	ivided by	3)								
	* To be i	ncluded	l as a que	estion ir	n theory	paper									
# 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	ye or bo	un paper	s is use	u for tar	Julation		and average of both papers is used for tabulation							

Table 2: Blueprint of IA (Theory)

BLUEPRINT	Number of questions							
IA QUESTION PAPER	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	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	
*A	ETCOM	should h	ave a we	eightage	of 5 mai	'ks		

4.2.2. Practical

- Each clinical posting will include and End of Posting (EoP) test.
- The marks allotted for each EoP is tabulated below.
- The preliminary examination will include a practical examination which will mirror the university examination in marks and pattern.

Table 3: Practical Internal Assessment

		Phase 2	Phase 3-1	Phase	e 3-2	
PR	ACTICAL	4 weeks	4 weeks	8 weeks	4 weeks	Final Total
		EOP-1	EOP-2	EOP-3	EOP-4	lotai
EOP	Clinical skills assessment (OSCE/ Mini-CEX/ Case presentation/ AETCOM)	40	40	60	60	
	Viva-voce (may include AETCOM)	10	10	10	10	
Others	Formative assessment including Clinical- Clerkship	05	05	10	10	
	Logbook/ Record book	05	05	10	10	
	Total	60	60	90	90	300
AETCOM may b	At least on be included as an OSCE sta	e EOP is to be con ation or as a part o	50 (final total divid ducted with OSCE a f Viva-voce during I oklet & AETCOM mo	s a part of it EOP, if it needs to) be assessed ir	n practica
Preliminary I	Practical Examinations wi		r 200 marks & will ı inations	mirror Summativ	e / University P	ractical
	Fin	al EOP marks (150)) + Allied Subjects	EOP marks (50)	+ Preliminary E	xam (200

4.2.3. Formative (Day to Day) Assessment

- Day to Day assessment will be performed and it will be added to the IA marks of theory as well as practical (as in tables above)
- Formative (Day to Day) assessment will be calculated based on attendance, maintenance of record books, log books, journals, case sheets etc
- Any assignments, presentations, seminars or other academic activity of note shall also reflect in the formative assessment

4.2.4. Remedial Assessment

 Remedial Examinations will be conducted as per the policy of Shri Dharmasthala Manjunatheshwara University and will be based on NMC guidelines.

4.3. Summative Assessment

4.3.1. Pass Criteria

- A candidate shall obtain 50% marks in university conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject.
- In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

4.3.2. Theory Summative Examination Format

- Third Professional Part II (Final Professional) examination shall be at the end of training (14 months including 2 months of electives) in the subjects of General Medicine, General Surgery, Obstetrics & Gynecology and Pediatrics.
- The disciplines of Orthopedics, Anesthesiology, Dentistry and Radiodiagnosis will constitute 25% of the total theory marks incorporated as a separate section in paper II of General Surgery.
- The disciplines of Psychiatry and Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis will constitute 25% of the total theory marks in General Medicine incorporated as a separate section in paper II of General Medicine.

4.3.3. Blueprint of Theory Summative Examination

Blueprint of Theory Summative Examination (Question paper wise)	Paper 1	Paper 2
Multiple Choice Questions (MCQ) (1 mark each)	20	20
Structured Long Essay Questions (SLEQ) (10 marks each)	02	02
Short Essay Questions (SEQ) (5 marks each)	08	08
Short Answer Questions (SAQ) (2 marks each)	10	10
TOTAL	100	100

Table 4: Blueprint of theory summative examination

		Blueprint of Theory Summative Examination (Topic based weightage) paper 1							
	Topic / System	Total Weightage	MCQ	SLEQ	SEQ	SAQ	Total Marks		
1	5. Liver disease	3					upto10		
2	15. GI bleeding	3					upto 10		
3	9. Anemia	3					upto 10		
4	1. Heart Failure	3					upto 10		
5	2. Acute Myocardial Infarction/ IHD	3					upto 10		
6	8. Hypertension	3					upto 10		
7	11. Diabetes Mellitus	3					upto 10		
8	17. Headache	3					upto 10		
9	18. Cerebrovascular accident	3					upto 10		
10	12. Thyroid dysfunction	2					upto 5		
11	19. Movement disorders	2					upto 5		
12	10. Acute Kidney Injury and Chronic renal failure	2					upto 5		
13	21. Mineral, Fluid Electrolyte and Acid base Disorder	2					upto 5		
14	23. Nutritional and Vitamin Deficiencies	2					upto 5		
15	14. Obesity	2					upto 5		
16	AETCOM [Role of physician]	2					upto 5		
	total	3-most important and crucial for general medicine practice as physician of first contact 2- very important for general medicine practice as physician of first contact 1-important for general medicine practice as physician of first contact					100		

Table 5: Blueprint (Topic based) of theory summative examination

	BI	ueprint of Theory Sum (Topic based weigh					
SL NO	Topic / System	Total Weightage	MCQ	-	SEQ	SAQ	Total Marks
	General medicine						
1	3. Pneumonia	3					UPTO 10
2	4. Fever and febrile syndromes	3					UPTO 10
3	25. Miscellaneous Infections	3					UPTO 10
4	20. Envenomation	3					UPTO 10
5	21. Poisoning	3					UPTO 10
6	6. HIV	2					UPTO 5
7	16. Diarrheal disorder	2					UPTO 5
8	24. Geriatrics	2					UPTO 5
9	7. Rheumatologic problems	2					UPTO 5
10	13. Common malignancies	1					UPTO 2
		 3-most important and crucial for general medicine practice as physician of first contact 2- very important for general medicine practice as physician of first contact 1-important for general medicine practice as physician of first contact 					50

Table 6: Blueprint (Topic based) of theory summative examination

Blueprint of Theory Summative Examination (Topic based weightage) paper 2B								
Topic / System	Total Weightage	MCQ	SLEQ	SEQ	SAQ	Total Marks		
Chest and TB	3	3	1		1	15		
DERMATOLOGY,					0	45		
VENEREOLOGY & LEPROSY	2	6		1	2	15		
Psychiatry	2	1		2	2	15		
AETCOM				1		5		

4.3.4. Practical Summative Examination Format

Practical Summative Examination Format		Number of cases	Marks allotted for each case	Total (Marks)
	Long cases+ Communication skills	1	60+10	60+10
Clinical Cases	Short cases	1- Diagnostic 2- Therapeutic	30 30	60
	Emergency case scenarios	2	10	20
	AETCOM	1	10	10
V	/iva-voce	Drugs and Instruments charts and spotters from allied subjects Xrays and scans ECGs	10 10 10 10	40
	TOTAL			200

5. INTEGRATION (HORIZONTAL & VERTICAL)

		INTEGRA	ΓΙΟΝ			
SI.	Competency	Competency Detail	Nesting / Sharing / Aligning /	Integration with departments		
no	no Number		Correlation	Horizontal	Vertical	
1.	IM 24.16	Disability and rehabilitation: international classification of functioning and disability, rehabilitation process, multidisciplinary team, outcomes		PMR/ Orthopedics		
2.	IM 24.14	Common Fractures in elderly :presentation, diagnosis, management and acute care with rehabilitation		Psychiatry		
3.	IM 24.11	Pre- op work :history, comorbidities, drug history and general with systemic examination investigations – risk stratification		Psychiatry		
4.	IM 24.10	COPD: aetiopathogenesis, clinical presentation, diagnosis, acute and long-term management		ENT		
5.	IM 24.12	Degenerative joint diseases/ OA: aetiopathogenesis, clinicalpresentation, diagnosis, education		Opthalmolo gy		

	and general measures,	
	physiotherapy	
IM 24.5	Depression: aetiology, diagnosis, management, prognosis, psychological treatments	Orthopedics
IM 24.7	Personality changes: definition, types, aetiology, management, prognosis	Orthopedics
IM 24.17	Hearing loss: aetiopathogenesis,clinic al presentation, identification, functional changes, acute care, stabilization, management and rehabilitation	surgery
IM 24.15	Vision: aetiopathogenesis,clinic al presentation, identification, functional changes, acute care, stabilization, management and rehabilitation:	surgery
IM7.3,7.4,7. 6,7.8,7.9.	Arthritis - Pathophysiology,Classifi cation And Causes , Clinical Features	surgery
IM 7.1 ,7.2 ,7.10,7.11,7. 13,7.14,7.15, ,7.17,7.18,7. 19,7.20	Crystalline Arthropathies::pathophy siology, genetic basis ,clinical features,	surgery

	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	manifestations ,dianosis	
	and management	
	Describe and assess	surgery
IM13.13	pain and suffering	
10110.10	objectively in a patient	
	with cancer	
	Describe the indications	surgery
IM13.14	for surgery, radiation	
11113.14	and chemotherapy for	
	common malignancies	
	Describe and enumerate	surgery
	the indications, use, side	
IM13.17	effects of narcotics in	
	pain alleviation in	
	patients with cancer	
	Describe the indications	surgery
	and interpret the results	
	of Chest X Ray,	
IM13.12	mammogram, skin and	
	tissue biopsies and	
	tumor markers used in	
	common cancers	
	Describe the indications	surgery
1110 14	for surgery, radiation	
IM13.14	and chemotherapy for	
	common malignancies	
	Describe and enumerate	surgery
	the indications, use, side	
IM13.17	effects of narcotics in	
	pain alleviation in	
	patients with cancer	

6. <u>RECOMMENDED BOOKS</u>

6.1. 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, Praveen Kumar Michal Clark, Clinical Medicine, Maxine A P Current medical diagnosis and treatment Washington manual of medical therapeutics Michael Glyms, Hutchison's clinical methods Graham D, Macleod's clinical examination 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

Journals

Journal of Association of Physicians of India

1. <u>GOAL</u>

- 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. <u>OBJECTIVES</u>

a. 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.

b. Skills

- 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).

c. Attitude & Communication Skills

At the end of the course, the learner should 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.

d. 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

THEORY	THEORY Teaching-Learning Method	
А	Large Group Teaching (LGT)	70
В	Small Group Teaching (SGT)	125
С	Self Directed Learning (SDL)	15
	Total	210

PRACTICAL	PRACTICAL Teaching-Learning Method	
A	Bedside Clinics	8+4
	Total	12

OTHERS	Teaching-Learning Method	No. of Hours
А	AETCOM	5+5 (AH)
В	Pandemic Module	0
С	Skill Lab	As applicable
	Total	

4. COURSE CONTENT

a. Theory

i. Large Group Teaching (LGT)

	Large Group Teaching (LGT) Theory Classes			
SI. No	Topic: Competency (Number & Details)	Competency	No. of Hours	
1	Describe principles of Preoperative assessment.	SU11.1	1	
2	Enumerate the principles of general, regional, and local Anaesthesia.	SU11.1	1	
3	Describe principles of providing post-operative pain relief and management of chronic pain	SU11.5	1	
4	Describe pathophysiology, clinical features, Investigations and principles of management of Hernias	SU28.1	3	
5	Describe the applied Anatomy and physiology of oesophagus	SU28. 5	1	
6	Describe the clinical features, investigations and principles of management of benign and malignant disorders of oesophagus	SU28.6	2	
7	Describe the applied anatomy and physiology of stomach	SU28.7	1	
8	Describe and discuss the aetiology, the clinical features, investigations and principles of management of congenital hypertrophic pyloric stenosis, Peptic ulcer disease, Carcinoma stomach	SU28.8	4	
9	Describe causes, clinical features, complications and principles of management of peritonitis	SU28.3	1	
10	Describe pathophysiology, clinical features, investigations and principles of management of Intra-abdominal abscess, mesenteric cyst, and retroperitoneal tumours	SU28.4	2	

r		l	,
11	Describe the applied anatomy of liver. Describe the clinical features, Investigations and principles of management of liver abscess, Hydatid disease, injuries and tumours of the liver	SU28.10	4
14	Describe the applied anatomy of spleen. Describe the clinical features, investigations and principles of management of splenic injuries. Describe the post-splenectomy sepsis – prophylaxis	28.11	2
15	Describe the applied anatomy of small and large intestine	SU28.13	1
16	Describe the clinical features, investigations and principles of management of disorders of small and large intestine including neonatal obstruction and Short gut syndrome	SU28.14	8
17	Describe the clinical features, investigations and principles of management of diseases of Appendix including appendicitis and its complications.	SU28.15	2
18	Describe applied anatomy including congenital anomalies of the rectum and anal canal	SU 28.16	1
19	Describe the clinical features, investigations and principles of management of common anorectal diseases	SU28.17	4
20	Describe the clinical features, principles of investigation, prognosis and management of pancreatitis	SU24.1	3
21	Describe the clinical features, principles of investigation, prognosis and management of exocrine pancreatic tumours	SU24.2	2
22	Describe the clinical features, principles of investigation, prognosis and management of endocrine pancreatic tumours	SU24.3	1
23	Describe the causes, investigations and principles of management of Haematuria	SU29.1	1

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	Total				
43	Describe classification of hospital waste and appropriate methods of disposal	SU15.1	1		
42	Describe Principles of safe General Surgery	SU11.6	1		
41	Enumerate the indications and principles of day care General Surgery	SU11.4	1		
40	Describe the etiology, pathogenesis, clinical features of tumours of lung and the principles of management	SU26.3	2		
39	Describe the immunological basis of organ transplantation. Discuss the Principles of immunosuppressive therapy. Enumerate Indications, describe surgical principles, management of organ transplantation	SU13.1,13.2	1		
38	Describe the applied anatomy clinical features, investigations and principles of management of testicular tumours	SU30.6	1		
37	Describe the applied anatomy clinical features, investigations and principles of management of hydrocele	SU30.5	1		

ii. Small Group Teaching (SGT)

	Small Group Teaching (SGT) Tutorials / Seminar / Group discussions etc.					
SI. No	Topic: Competency (Number & Details)	Competency	SGT Subtype	No. of Hours		
1	Discuss the legal and ethical issues concerning organ donation	SU13.3	AETCOM	2		
2	Counsel patients and relatives on organ donation in a simulated environment	SU13.4	AETCOM	2		
3	Instrument &sutures-1	SU14.2	Instruments	2		
4	Instrument &sutures(revision)	SU14.3	Instruments	2		
5	Incision and drainage of abscess. Hilton's technique. Breast abscess. Parotid abscess	SU18.1 & 25.2	Operative surgery	2		
6	Excision biopsy: Lipoma, sebaceous cyst, lymph node biopsy	SU18.2 & 27.4	Operative surgery	2		
7	Lower limb amputation	SU27.4	Operative surgery	2		

8	Surgery for varicose veins	SU27.6	Operative surgery	2
9	Tracheostomy	NA	Operative surgery	2
10	Thyroidectomy	SU22.4	Operative surgery	2
11	Excision of fibroadenoma. Mastectomy	SU25.3	Operative surgery	2
12	Abdominal incisions	NA	Operative surgery	2
13	Gastrojejunostomy	SU28.8	Operative surgery	2
14	Splenectomy	SU28.11	Operative surgery	2
15	Cholecystectomy	SU28.12	Operative surgery	2
16	lleostomy & Colostomy	SU28.13	Operative surgery	2
17	Appendectomy	SU28.14	Operative surgery	2
18	Lords' dilatation haemorrhoidectomy	SU28.15	Operative surgery	2
19	Hernia surgery	SU28.16	Operative surgery	2
20	Catheterisation. Suprapubic cystostomy	SU29.7	Operative surgery	2
21	Circumcision. Orchidectomy. Palamo's	SU30.1 &	Operative aurgery	2
21	operation	30.6	Operative surgery	Z
22	Surgery for hydrocele	SU30.5	Operative surgery	2
23	X-ray class -plain	NA	Radiology class	2
24	X-ray class -contrast	NA	Radiology class	2
25	Pathology specimens	NA	Specimen class	2
26	Metabolic acidosis	SU12.2	Tutorial	2
27	Metabolic alkalosis	SU12.2	Tutorial	2
28	Electrolyte imbalances	SU12.2	Tutorial	2
29	Epigastric mass	SU28.8	Tutorial	2
30	Lumbar mass	SU29.6	Clinical approach	2
31	Right iliac fossa mass	SU28.15 & SU28.14	Clinical approach	2
32	Scrotal swelling	SU30.6 & SU30.5	Clinical approach	2
33	Inguinoscrotal and inguinal swellings	SU28.1	Clinical approach	2
34	Obstructive jaundice	SU28.10	Clinical approach	2
35	Principles of cancer management	SU9.2	Tutorial	2
36	Non variceal upper GI bleeding	SU28.8	Tutorial	2
37	Variceal upper GI bleeding	SU28.10	Tutorial	2
38	Lower GI bleeding	SU28.14	Tutorial	2
39	Management of carcinoma breast	SU25.1,2,3	Tutorial	2
40	Management of carcinoma thyroid	SU22.4	Tutorial	2

41	Management of testicular tumours	SU30.6	Tutorial	2
42	Clinical approach to cervical lymphadenopathy	SU27.4	Clinical approach	2
43	X-ray class -plain		Revision	2
44	X-ray class -contrast		Revision	2
45	Perforation of peptic ulcer	SU28.3	Tutorial	2
46	Clinical approach to retroperitoneal mass	SU28.18	Clinical approach	2
47	Clinical approach to oral ulcer	SU20.1	Clinical approach	2
48	Lymphedema	SU27.4	Tutorial	2
49	Clinical approach to a case of leg ulcer -2	SU5.2	Clinical approach	2
50	Clinical approach to subcutaneous swellings	SU18.2	Clinical approach	2
51	Foot complications from diabetes	SU5.2	Tutorial	2
52	Hydronephrosis	SU29.4	Tutorial	2
53	Renal calculi	SU29.5	Tutorial	2
54	Gastric outlet obstruction	SU28.8	Tutorial	2
55	Renal cell carcinoma	SU29.6	Tutorial	2
56	Fluid management in children	SU12.2	Tutorial	2
57	Solid tumours in paediatric surgery	SU29.6	Tutorial	2
58	Acute scrotum in paediatric surgery	SU30.6 & SU30.5	Tutorial	2
59	Acute intestinal obstruction in pedantic	SU28.14	Tutorial	2
60	Preoperative antibiotics	SU11.6	Tutorial	2
61	Premalignant oral lesions	SU20.1	Tutorial	2
62	Premalignant colon lesions	SU28.14	Tutorial	2
63	Revision			1
Total 12				

iii. Self Directed Learning (SDL)

Self Directed Learning (SDL)					
SI. No	Topic: Competency (Number & Details)	No. of Hours			
1	Anatomy of peritoneal spaces and its clinical correlation	01			
2	Physiology of Thyroid hormone synthesis and all the drugs acting on the pathway	01			
3	Physiology of haemoglobin metabolism and its relation to jaundice	01			
4	Anatomy of thyroid gland in correlation to thyroidectomy	01			
5	Anatomy of inguinal canal and its usefulness in hernia surgery	02			
6	Anatomy of anterior abdominal wall and its correlation to ventral hernias	02			
7	Wagner's classification of diabetic foot ulcer	01			
8	The etiopathogenesis of diabetic foot ulcer disease	01			
9	ATLS (Advanced Trauma Life Support): Part I	01			
10	ATLS (Advanced Trauma Life Support): Part II	01			
11	"Deadly Dozen" in chest injury	01			
12	Acute abdomen: Differential diagnosis	01			
13	Acute abdomen: Initial resuscitation and management	01			
	Total	15 Hrs			

b. Practical i. Bedside Clinics

i. Bedside Clinics								
	-	le Clinics						
SI. No	Topic: Competency (Number & Details)	Competen cy	Suggested TL Method	No. of Hours				
1.	Ulcer: Elicit, document and present a history in a patient presenting with wounds.	SU 5.2	Bedside clinics / DOAP	As required				
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	Bedside clinics / DOAP	As required				
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	Bedside clinics / DOAP	As required				
4	Varicose veins: Demonstrate the correct examination of the vascular system and enumerate and describe the investigation of vascular disease (veins)	SU 27.2	Bedside clinics / DOAP	As required				
5	Lymph nodes: Demonstrate the correct examination of the lymphatic system and enumerate and describe the investigation of lymph node enlargement	SU 27.2	Bedside clinics / DOAP	As required				
6	Hernia: Demonstrate the correct technique to examine the patient with hernia and identify different types of hernias.	SU28.2	Bedside clinics / DOAP	As required				
7	Scrotal swelling: Demonstrate the correct technique to examine the patient with scrotal swelling and identify different causes for scrotal swelling.	SU30.5 & SU30.6	Bedside clinics / DOAP	As required				
8	Goitre: Demonstrate and document the correct clinical examination of thyroid	SU22.3	Bedside clinics / DOAP	As required				

	swellings and discus the differential				
	diagnosis and their management				
	Breast lump:				
	Demonstrate and document the				
9	correct clinical examination of breast	SU25.5	Bedside clinics /	As required	
9			DOAP	As required	
	•				
10		SU28.18	Bedside clinics /	As required	
10			DOAP	As required	
	Iump and discus the differential diagnosis and their managementSuzeMass abdomen: Describe and demonstrate clinical examination of abdomen. Order relevant investigations. Describe and discuss appropriate treatment planSU28.18Bedside clinics / DOAPObstructive jaundice: Describe and demonstrate clinical examination of a case of obstructive jaundice. Order relevant investigations. Describe and discuss appropriate treatment planSU28.12Bedside clinics / DOAPDemonstrate the correct technique of examination of a patient with disorders of the liver Order relevant investigations. Describe and discuss appropriate treatment planSU28.10Bedside clinics / DOAPStomach mass: Demonstrate the correct technique of examination of a patient with disorders of the stomach. Order relevant investigations. Describe and discuss appropriate treatment planSU28.9Bedside clinics / DOAPDemonstrate the correct technique of examination of a patient with disorders of the stomach. Order relevant investigations. Describe and discuss appropriate treatment planSU28.9Bedside clinics / DOAPDoAPSu28.9Bedside clinics / DOAPDemonstrate the correct technique of examination of a patient with discuss appropriate treatment planSU28.11Bedside clinics / DOAPDOAP				
I	-				
		01100 10	Padaida aliniaa /		
11		3020.12	-	As required	
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	_				
	•	SU28 10	Redside clinics /		
12		0020.10	-	As required	
			20/11		
	-				
	Demonstrate the correct technique of				
		SU28.9	Bedside clinics /		
13	•		Bedside clinics /	As required	
	relevant investigations. Describe and				
	-				
		0100 11			
	Demonstrate the correct technique of	5028.11			
14	examination of a patient with		Bedside clinics /	A a <i>n</i> a <i>n</i>	
14	splenomegaly. Order relevant		DOAP	As required	
	investigations. Describe and discuss				
	appropriate treatment plan				
	Renal mass:				
	Demonstrate the correct technique of				
15	examination of a patient with renal	SU28.4	Bedside clinics /	As required	
15	mass. Order relevant investigations.		DOAP	As required	
	Describe and discuss appropriate				
	treatment plan				
Apart	from the above-mentioned cases other comm	nonly seen cas	es will be taught base	d on availability.	

ii. Clinical Clerkship / Evening Clinics

	Clinical Clerkship / Evening C	linics		
Day	Торіс	Suggested TL Method	No. of Hours	
OPD	 Ward beds allocation to student Case sheet writing Investigations in different surgical diseases Writing a drug chart 	DOAP SGD	01 / week*	
Post OPD	 Follow up writing Pre-operative work up Taking an informed written consent Specialised consents Pre-operative instruction writing 	DOAP SGD	01 / week*	
ОТ	 Importance of checklist in pre-op Donning and doffing OT notes writing Post-operative patient monitoring 	DOAP SGD	01 / week*	
Post OT	 Post-operative follow up Drains and their importance Drain and wound care 	DOAP SGD	01 / week*	
Ward Rounds	 Dressing different ulcers Dressing materials and etiquettes Ward procedures (assist/perform) 	DOAP SGD	01 / week*	
	e subject to change based on time tak			

	Skill Lab								
SI. No	Topic: Competency (Number & Details)	Competency	No. of Hours						
1	Perform basic surgical Skills such as First aid including suturing and minor surgical procedures in simulated environment	SU10.4							
2	Demonstrate Airway maintenance. Recognize and manage tension pneumothorax, haemothorax and flail chest in simulated environment.	SU17.10	As per allocation						
3	Demonstrate the techniques of asepsis and suturing in a simulated environment	SU14.4							
4	Observe common surgical procedures and assist in minor surgical procedures; Observe emergency lifesaving surgical procedures.	SU10.3							

iv. Certifiable Skills

	Certifiable Skills								
SI. No	Skills that require certification	No. of Attempts	Criteria for certification						
1	Basic suturing (I)	03							
2	Basic wound care (I)	03	Performs /						
3	Basic bandaging (I)	03	Demonstrates with						
4	Incision and drainage of superficial abscess (I)	03	due proficiency which is certified by						
5 Early management of trauma (I) and trauma life support (D)		03	the faculty in charge						
	I = Perform Individually								
	D = Demonstrate	28							

c. AETCOM Module

AETCO	OM Module		
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours
	Module 4.4:		5
1	Case studies in ethics empathy and the	As per	(1+2+1+1)
	doctor-patient relationship	module	Includes 2 Hrs
	(Palliative care in terminal cancer)		of SDL
	Module 4.8:		
	Dealing with death		5
	(Loss of a patient)	Ac por	(1+2+1+1)
2 *		As per	
	*This module will alternate between the	module	Includes 2 Hrs
	departments of General Surgery and OBG on		of SDL
	yearly basis		
		Total	10 Hrs
			(Including 4
			Hrs SDL)

d. Pandemic Module

	Pandemic Module							
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours					
	NOT APPLICABLE							

5. SCHEME OF EXAMINATION

a. Eligibility Criteria

- Students must secure at least 50% 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 Summative / University examination.
- Student should have a minimum of 75% attendance in Theory and 80% in Practical classes to be eligible to appear for Summative / University examination.
- Student must have completed the required certifiable competencies and completed the log book

b. Internal Assessment

- i. Theory
- Multiple (a minimum of two) Internal Assessments (IA) will be conducted.
- The last IA will be conducted as Preliminary examination, which will mirror the university exams in marks and pattern.
- The final IA marks will be derived based on the table given below.
- The blueprint of all the IAs is also given in the table below.

DEPARTMENT OF GENERAL SURGERY								
	Integ	rated phas	se-wise Int	ernal Asse	essment			
	THEORY	Pha	se 2	Phase	e 3-1	Phase 3-2		Final
THEORY		IA-1	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 THEO	ORY IA MA	RKS = 150	(final tota	l divided	by 3)		
* To be included as a question in theory paper								
# Pandemic module to be included in theory exam								
IA-6 is Pr	eliminary exam and he avera			as two the used for ta		rs of 10	0 marks	each, and

Table 1: Theory Internal Assessment

Table 2: Blueprint of IA (Theory)

BLUEPRINT	Number of questions								
IA QUESTION PAPER	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	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	A should	have a	weighta	ge of 5 n	narks			

6.1.1. Practical

- Each clinical posting will include and End of Posting (EoP) test.
- The marks allotted for each EoP is tabulated below.
- The preliminary examination will include a practical examination which will mirror the university examination in marks and pattern.

Table 3: Practical Internal Assessment

TUDIC	<i>2 3: Practical Internal Assess</i>		ERAL SURGE	DV		
			ternal Assess			
	integrated p	Phase 2	Phase 3-1		e 3-2	
	PRACTICAL 4		4 weeks	8 weeks	4 weeks	Final Total
		EOP-1	EOP-2	EOP-3	EOP-4	TOLAT
	Clinical skills					
	assessment	40	40	60	60	
EOP	(OSCE/ Mini-CEX/ Case	10			00	
	presentation/ AETCOM) Viva-voce (may include					
	AETCOM)	10	10	10	10	
	Formative assessment					
A .1	including Clinical-	05	05	10	10	
Others	Clerkship					
	Logbook/ Record book	05	05	10	10	
	Total	60	60	90	90	300
	FINAL EOP IA MA	•		• •		
	At least one EOP is to			•		
AETCOM r	nay be included as an OSCE		-		-	needs to
	be assessed in practical (R	efer compet	ency booklet	& AETCOM	module)	
Prelimina	ry Practical Examinations wi Univers		ted for 200 m Examinations		mirror Sum	mative /
Final pra	Final EOP ctical IA marks(200) =	marks (150) + A	llied Subjects EC	OP marks (50) +	Preliminary E	(200)
rinai pra			2			

6.1.2. Formative (Day to Day) Assessment

- Day to Day assessment will be performed and it will be added to the iA marks of theory as well as practical (as in tables above)
- Formative (Day to Day) assessment will be calculated based on attendance, maintenance of record books, log books, journals, case sheets etc
- Any assignments, presentations, seminars or other academic activity of note shall also reflect in the formative assessment

6.1.3. Remedial Assessment

 Remedial Examinations will be conducted as per the policy of Shri Dharmasthala Manjunatheshwara University and will be based on NMC guidelines.

c. Summative Assessment

i. Pass Criteria

- A candidate shall obtain 50% marks in university conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject.
- In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

ii. Theory Summative Examination Format

- Third Professional Part II (Final Professional) examination shall be at the end of training (14 months including 2 months of electives) in the subjects of General Medicine, General Surgery, Obstetrics & Gynecology and Pediatrics.
- The disciplines of Orthopedics, Anesthesiology, Dentistry and Radiodiagnosis will constitute 25% of the total theory marks incorporated as a separate section in paper II of General Surgery.
- The disciplines of Psychiatry and Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis will constitute 25% of the total theory marks in General Medicine incorporated as a separate section in paper II of General Medicine.

iii. Blueprint of Theory Summative Examination

Blueprint of Theory Summative Examination	Paper 1	Paper 2		
Multiple Choice Questions (MCQ)	20	20		
(1 mark each)	20	20		
Structured Long Essay Questions (SLEQ)	02	02		
(10 marks each)	02	02		
Short Essay Questions (SEQ)	08	08		
(5 marks each)	00	00		
Short Answer Questions (SAQ)	10	10		
(2 marks each)	10	10		
TOTAL	100	100		
AETCOM should have a weightage of 5 marks in each paper				

 Table 5: Blueprint (Topic based) of theory summative examination

Blueprint of Theory Summative Examination (Topic based weightage) *					
Topic / System	MCQ	SLEQ	SEQ	SAQ	Total Marks
Principles of Surgery: (General, Investigations, Peri- operative care)					20
Trauma					10
Skin & subcutaneous Tissue					10
Breast, thyroid and other endocrine diseases					15
Vascular Diseases: Arterial, Venous and Lymphatic					10
GI Tract and Abdomen					30
Hernias					10
Cardiothoracic surgery					5
Urology & andrology					20
Plastic & reconstructive surgery					5
Neurosurgery					5
Allied subjects (Orthopaedics, Radiology, Anaesthesia, Dentistry, PM & R)					50
7. AETCOM (5 marks per paper)					10
Total					200
Further division of topic b Manjunatheshwara Univer		-	er existing	Shri Dharma	sthala

Surgery Paper I					
Principles of Surgery (General, investigations, perioperative	30				
care & trauma)					
Skin & subscutaneous tissue	10				
Breast, thyroid and other endocrine diseases	15				
GI tract and abdomen	30				
Hernias	10				
AETCOM	05				
TOTAL	100				

Surgery Paper II (2a+2b)					
Vascular diseases: Arterial, Venous & lymphatic	10				
Cardiothoracic surgery	05				
Urology & andrology	20				
Plastic & reconstructive surgery	05				
Neurosurgery	05				
AETCOM	05				
Allied subject (Paper 2b)	50				
TOTAL	100				

iv. Practical Summative Examination Format

Practical Summati	ve Examination: Surg	jery, Orthopaedics & A	llied subjects
GENERAL SURGERY	Clinical	Long Case	70
		Short Case - 1	30
		Short Case - 2	30
	Viva Voce	Specimen	5
		X - Rays	5
		Instruments	5
		Operative Surgery	5
ORTHOPAEDICS	Clinical	Short Case - 3	15
		Short Case - 4	15
	Viva Voce	Includes X - Rays,	5
		Instruments and	
		General	
		Orthopaedic Viva	
ALLIED SURGICAL	Spotters, Charts, P	ractical Problem	15
SUBJECTS	Solving		
(Anaesthesia,			
Radiology, Dentistry, PM & R)			
		Total	200

6. <u>INT</u>	EGRATION (HORIZO	ONTAL & VERTICA	<u>AL)</u>	
	1	INTEGRATIO	N	
Competency Number	Competency Detail	TL Method	Depart Pre & Para Clinical	ments Involved Clinical
		ANAESTHES	A	
AS3.3	Demonstrate and document an appropriate clinical examination in a patient undergoing General Surgery	DOAP session, Bedside clinic		General Surgery, General Medicine
AS3.4	Choose and interpret appropriate testing for patients undergoing Surgery	DOAP session, Bedside clinic		General Surgery, General Medicine
AS3.5	Determine the readiness for General Surgery in a patient based on the preoperative evaluation	DOAP session, Bedside clinic		General Surgery, General Medicine
AS5.6	Observe and describe the principles and steps/ techniques involved in common blocks used in Surgery (including brachial plexus blocks)	Lecture, Small group discussion, DOAP session		General Surgery
AS6.3	Describe the common	Lecture, Small group		General Surgery

	complications encountered by patients in the recovery room, their recognition and principles of management	discussion, DOAP session		
AS9.3	Describe the principles of fluid therapy in the preoperative period	Lecture, Small group discussion, DOAP session		General Surgery
AS9.4	Enumerate blood products and describe the use of blood products in the preoperative period	Lecture, Small group discussion, DOAP session	Pathology	General Surgery
AS10.3	Describe the role of communication in patient safety	Lecture, Small group discussion, DOAP session	AETCOM	General Surgery

	ME	DICINE		
IM5.8	Describe and discuss the pathophysiology, clinical evolution and complications of cholelithiasis and cholecystitis	Lecture, Small group discussion	General Surgery	
IM5.13	Enumerate the indications for ultrasound and other imaging studies including MRCP and ERCP and describe the findings in liver disease	Bed side clinic, Small group discussion	Radiodiagnosis	General Surgery
IM5.16	Describe and discuss the management of hepatitis, cirrhosis, portal hypertension, ascites, spontaneous, bacterial peritonitis and hepatic encephalopathy	Written, Small group discussion	Pharmacology	General Surgery
IM5.18	Enumerate the indications for hepatic transplantation	Written, Small group discussion		General Surgery
IM12.6	Perform and demonstrate a systematic examination based on the history that will help establish the diagnosis and severity including systemic signs of thyrotoxicosis and hypothyroidism, palpation of the pulse for rate and rhythm abnormalities, neck palpation of the thyroid and lymph nodes and cardiovascular findings	Bed side clinic, DOAP session		General Surgery
IM12.7	Demonstrate the correct technique to palpate the thyroid	Bedside clinic, DOAP session		General Surgery
IM12.8	Generate a differential diagnosis based on the clinical presentation and prioritise it based on the most likely diagnosis	Bedside clinic, small group discussion		General Surgery
IM12.9	Order and interpret diagnostic testing based on the clinical diagnosis including CBC, thyroid function tests and ECG and radio iodine uptake and scan	Bed side clinic, DOAP session		General Surgery
IM12.10	Identify atrial fibrillation, pericardial effusion and bradycardia on ECG	Bedside clinic, lab		General Surgery
IM12.11	Interpret thyroid function tests in hypo-and hyperthyroidism	Bedside clinic, lab		General Surgery

IM12.13	Describe the pharmacology,	Lecture, Small	Pharmacology	General
11112.15	indications, adverse reaction,	group	Thannacology	Surgery
	interactions of thyroxine and	discussion		ourgery
	antithyroid drugs			
IM12.15	Describe and discuss the indications	Bedside clinic,	Pharmacology	General
	of thionamide therapy, radio iodine	Small group	5,	Surgery
	therapy and Surgery in the	discussion		3,
	management of thyrotoxicosis			
IM13.7	Elicit document and present a history	Bedside clinic		General
	that will help establish the aetiology			Surgery
	of cancer and includes the			
	appropriate risk factors, duration and			
	evolution			
IM13.8	Perform and demonstrate a physical	Bedside clinic		General
	examination that includes an			Surgery
	appropriate general and local			
	examination that excludes the			
	diagnosis, extent spread and			
	complications of cancer			
IM13.9	Demonstrate in a mannequin the	Bedside clinic	Human Anatomy	General
	correct technique for performing			Surgery
	breast exam, rectal examination and			
1140.40	cervical examination and pap smear			
IM13.10	Generate a differential diagnosis	Bedside clinic		General
	based on the presenting symptoms			Surgery
	and clinical features and prioritise			
IM13.13	based on the most likely diagnosis Describe and assess pain and	Bedside clinic,	Pharmacology	General
11113.13	suffering objectively in a patient with	Small group	Fildimaculuyy	
	cancer	discussion		Surgery
IM13.14	Describe the indications for General	Bedside clinic,	Pharmacology	General
	Surgery, radiation and chemotherapy	Small group	. narnaoology	Surgery
	for common malignancies	discussion		Surgery
IM14.14	Describe and enumerate the	Lecture, Small		General
	indications and side effects of	group		Surgery
	bariatric surgery	discussion		
IM15.1	Enumerate, describe and discuss the	Lecture, Small	Pathology	General
	aetiology of upper and lower GI	group		Surgery
	bleeding	discussion		
IM15.2	Enumerate describe and discuss the	DOAP session,	Pathology	General
	evaluation and steps involved in	Small group		Surgery

			1	
	stabilizing a patient who presents	discussion,		
	with acute volume loss and GI bleed	Lecture		
IM15.3	Describe and discuss the physiologic effects of acute blood and volume loss	Lecture, Small group discussion	Pathology, Physiology	General Surgery
IM15.4	Elicit document and present an appropriate history that identifies the route of bleeding, quantity, grade, volume loss, duration, etiology, comorbid illnesses and risk factors	Bedside clinic		General Surgery
IM15.5	Perform, demonstrate and document a physical examination based on the history that includes general examination, volume assessment and appropriate abdominal examination	Bedside clinic, Sklls lab		General Surgery
IM15.6	Distinguish between upper and lower gastrointestinal bleeding based on the clinical features	Lecture, Small group discussion		General Surgery
IM15.7	Demonstrate the correct technique to perform an anal and rectal examination in a mannequin or equivalent	DOAP session		General Surgery
IM15.8	Generate a differential diagnosis based on the presenting symptoms and clinical features and prioritise based on the most likely diagnosis	Bedside clinic, Skills lab		General Surgery
IM15.9	Choose and interpret diagnostic tests based on the clinical diagnosis including complete blood count, PT and PTT, stool examination, occult blood, liver function tests, H.pylori test.	Bedside clinic, DOAP session, Small group discussion	Pathology	General Surgery

IM15.10	Enumerate the indications for	Lectures, Small		General
	endoscopy, colonoscopy and other	group		Surgery
	imaging procedures in the	discussion		
	investigation of Upper GI bleeding			
IM15.11	Develop, document and present a	Lecture, Small	Pathology	General
	treatment plan that includes fluid	group		Surgery
	resuscitation, blood and blood	discussion		
	component transfusion, and			
	specific therapy for arresting blood			
	loss			
IM15.12	Enumerate the indications for	Lecture, Small	Pathology	General
	whole blood, component and	group		Surgery
	platelet transfusion and describe	discussion		
	the clinical features and			
	management of a mismatched			
	transfusion			
IM15.13	Observe cross matching and blood	Bedside clinic	Pathology	General
	/ blood component transfusion			Surgery
IM15.14	Describe and enumerate the	Lecture, Small	Pharmacology	General
	indications, pharmacology and	group		Surgery
	side effects of pharmacotherapy of	discussion		
	pressors used in the treatment of			
	Upper GI bleed			
IM15.15	Describe and enumerate the	Lecture, Small	Pharmacology,	General
	indications, pharmacology and	group	Microbiology	Surgery
	side effects of pharmacotherapy of	discussion		
	acid peptic disease including			
	Helicobacter pylori			
IM15.16	Enumerate the indications for	Lecture, Small		General
	endoscopic interventions and Surgery	group discussion		Surgery
IM15.17	Determine appropriate level of	Small group		General
	specialist consultation	discussion		Surgery
IM15.18	Counsel the family and patient in	DOAP session		General
	an empathetic non-judgmental			Surgery
	manner on the diagnosis and			
	therapeutic options			
IM16.12	Enumerate and discuss the	Lectures, Small	Pathology	General
	indications for further	group		Surgery
	investigations including	discussion		
	antibodies, colonoscopy,			
	diagnostic imaging and biopsy in			
	the diagnosis of chronic diarrhea			

IM16.15	Distinguish, based on the clinical	Lecture, Small	Pathology	General
	presentation, Crohn's disease from	group		Surgery
	ulcerative colitis	discussion		
IM16.17	Describe and enumerate the	Lecture, Small		General
	indications for Surgery in	group		Surgery
	inflammatory bowel disease	discussion		
IM18.15	Enumerate the indications for	Lecture, Small		General
	Surgery in a hemorrhagic stroke	group		Surgery
		discussion		
IM19.9	Enumerate the indications for use	Lecture, Small	Pharmacology	General
	of Surgery and botulinum toxin in	group		Surgery
	the treatment of movement	discussion		
	disorders			
IM22.2	Describe the aetiology, clinical	Lecture, Small	Pathology	General
	manifestations, diagnosis and	group		Surgery
	clinical approach to primary	discussion		
IM24.11	hyperparathyroidism Describe and discuss the	Lecture, Small		Anesth
111124.11	aetiopathogenesis, clinical	group		esiolog
	presentation, identification,	discussion		y,
	functional changes, acute care,			General
	stabilization, management and			Surgery
	rehabilitation of the elderly			
	undergoing surgery			
	OBO	3		
OG26.2	Describe the causes, prevention,	Lecture, Small		General
	clinical features, principles of	group		Surgery
	management of genital injuries	discussion		
	and fistulae			
0G33.2	Describe the principles of	Lecture, Small		General
0000.2	management including Surgery and	group		Surgery
	radiotherapy of benign, pre-	discussion,		ourgery
	malignant (CIN) and malignant	Bedside clinics		
	Lesions of the Cervix			
	PAEDIA	TRICS		
PE21.8	Elicit, document and present a	Bedside clinics,		General
	history pertaining to diseases of	Skills lab		Surgery
	the Genitourinary tract00			
PE21.14	Recognize common surgical	Bed side clinics,		General
	conditions of the abdomen and	Skills lab		Surgery

	genitourinary system and enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis pancreatitis perforation intussusception, Phimosis, undescended testis, Chordee, hypospadiasis,Torsion testis, hernia Hydrocele, Vulval Synechiae			
OR1.1	Describe and discuss the	Lecture with		General
	principles of pre-hospital care and casuality management of a trauma victim including principles of triage	video, Small group discussion		Surgery - Anaest hesiolo gy
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	Lecture		General Surgery
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	Lecture, Small group discussion		General Surgery
OR1.4	Describe and discuss the principles of management of soft tissue injuries	Lecture, Small group discussion		General Surgery
OR3.1	Describe and discuss the aetiopathogenesis, clinical features, Investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection Skeletal Tuberculosis	Lecture, Small group discussion, Video assisted lecture	Pathology, Microbiology	General surgery

OR3.3	Participate as a member in team	DOAP session,		General
•	for procedures like drainage of	Video		Surgery
	abscess, sequestrectomy/	demonstration		5.55
	saucerisation and arthrotomy			
OR4.1	Describe and discuss the clinical	Lecture,Small	Pathology	General
	features, Investigation and	group		surgery
	principles of management of	discussion,		sa gerj
	Tuberculosis affecting major joints	Case discussion		
	(Hip, Knee) including cold abcess			
	and caries spine			
OR10.1	Describe and discuss the	Lecture, Small	Pathology	General
	aetiopathogenesis, clinical	group	5,	surgery,
	features, Investigations and	discussion,		Radioth
	principles of management of	Video assisted		erapy
	benign and malignant bone	interactive		
	tumours and pathological fractures	lecture		
OR11.1	Describe and discuss the	Lecture, Small	Human Anatomy	General
	aetiopathogenesis, clinical	Group	,	Medicin
	features, investigations and	discussion,		e,
	principles of management of	Case discussion		General
	peripheral nerve injuries in			surgery
	diseases like foot drop, wrist drop,			
	claw hand, palsies of Radial, Ulnar,			
	Median, Lateral Popliteal and			
	Sciatic Nerves			
	PM 8	R		1
PM5.1	Enumerate the indications and	Lecture, Small		Orthope
	describe the principles of	group		dics,
	amputation	discussion		General
				Surgery
PM7.8	Enumerate the causes of, describe,	Lecture, Small		General
	classify Pressure sores,	group		Surgery
	prevention, and treatment.	discussion		
PM7.9	Enumerate the indications of	Lecture, Small		General
	debridement, and Split thickness	group		Surgery
	skin grafting.	discussion		
PM8.1	Describe the clinical features,	Lecture, Small		General
	evaluation, diagnosis and	group		Medicin
	management of disability following	discussion		e,
	traumatic brain injury			

		THERAPY		Orthope dics, General Surgery	
RT	Describe and discuss definition of	Lecture		General Surgery	
1.1	radiation, mechanism of action of radiation, types of radiation			Anaesthesiology	
RT	Enumerate, describe and discuss and	Lecture	Pathology	gy General Surgery,	
1.3	classify staging of cancer (AJCC, FIGO etc.)			General Medicine	
RT 4.5	Describe and discuss role of radiation in management of common malignancies in India (region specific)	Lecture, Bed side clinic	Pathology	General Surgery, Obstetrics & Gynaecology	
RT4 .6	Describe and discuss radiotherapy for benign disease	Lecture	Pathology	General Surgery, Obstetrics & Gynaecology	
RT 4.7	Counsel patients regarding acute and late effects of radiation and supportive care	Bedside clinic, Group discussion	Pathology	General Surgery, Obstetrics & Gynaecology	
RT 4.8	Describe oncological emergencies and palliative care	Lecture, Group discussion		General Surgery, Obstetrics & Gynaecology	
RT 5.1	Describe and discuss cancer prevention, screening, vaccination, cancer registry	Group discussion	Pathology	General Surgery, Obstetrics & Gynaecology	

7. <u>Recommended Books</u>

a. Text books

Latest editions of the following books are advised

- Bailey & Love's · Short Practice of Surgery
- Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice
- Manipal Manual of Surgery: Dr. K. Rajagopal Shenoy
- SRB's Manual of Surgery: Dr. Sri Ram Bhat
- A Manual on Clinical Surgery: S. Das

b. Reference books

Latest editions of the following books are advised

- Schwartz's Principles of Surgery
- Rutherford's Vascular Surgery and Endovascular Therapy
- Shackelford's Surgery of the Alimentary Tract
- Blumgart's Surgery of the Liver, Biliary Tract and Pancreas
- Stell & Maran's Textbook of Head and Neck Surgery and Oncology
- Browse's Introduction to The Symptoms and Signs of Surgical Disease
- Hamilton Bailey's Emergency Surgery
- Maingot's Abdominal Operations
- c. Journals
 - Annals of surgery (https://journals.lww.com/annalsofsurgery)
 - BMJ Surgery, Interventions, & Health Technologies (https://sit.bmj.com)

END

1. <u>GOAL</u>

- 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 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 labor, 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 in Obstetrics and Gynaecology, and to patients in Obstetric shock.
- Commitment to advancement of quality and patient safety in surgical practice.

b. Skills

- 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 gynecological examination in a non-pregnant woman.
- Ability to write a detailed and accurate case sheet (Case record).

c. Attitude & 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.

d. 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

THEORY	Teaching-Learning Method	No. of Hours
А	Large Group Teaching (LGT)	70
В	Small Group Teaching (SGT)	125
С	Self-Directed Learning (SDL)	15
	Total	210

PRACTICAL	Teaching-Learning Method	No. of Weeks
A	Bedside Clinics	8+4
	Total	12

OTHERS	OTHERS Teaching-Learning Method	
A	AETCOM	7
В	Pandemic Module	6
С	Skill Lab	12
	Total	25

4. <u>COURSE CONTENT</u> a. Theory

i. Large Group Teaching (LGT)

	Large Group Teaching (LGT) Theory Classes			
SI. No		Topic: Competency (Number & Details)	No. of Hours	
1	0G5.1	Describe, discuss and identify pre-existing medical disorders and discuss their management; discuss evidence –based intra-partum care.	1	
2	0G9.1	Classify, define and discuss the aetiology and management of abortions including threatened, incomplete, inevitable, missed and septic abortion.	2	
3	0G11.1	Describe the etipathology, clinical features, diagnosis and investigations , complications , principles of management of multiple pregnancies	2	
4	12.1	Define, classify and describe the aetiology and pathophysiology, early detection, investigations; principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia.	2	
5	0G12.3	Define, classify and describe the aetiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labour, and complications of diabetes in pregnancy	2	
6	0G12.4	Define, classify and describe the aetiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labour, and complications of heart diseases in pregnancy	2	
7	12.6	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the liver disease on pregnancy complications and management of liver disease in pregnancy	1	

1		
	Describe the mechanism, prophylaxis, foetal	
0G12.8	complications, diagnosis and management of	1
	isoimmunisation in pregnancy	
	Define, describe the causes, pathophysiology,	
0G13.2	diagnosis, investigations and management of	2
	preterm labour, PROM and post-dated pregnancy	
	Discuss the mechanism of normal labour, Define	
0G14.2	and describe obstructed labour, its clinical	2
	features; prevention; and management	
0014.2	Describe and discuss rupture uterus, causes,	1
0014.5	diagnosis and management.	Ι
00144	Describe and discuss the classification;	1
0014.4	diagnosis and management of abnormal labour	1
	Enumerate and describe the indications and steps	
	of common obstetric procedures, technique and	
0015 1	complications: Episiotomy, vacuum extraction;	2
0615.1	low forceps; Caesarean section, assisted breech	3
	delivery; external cephalic version; cervical	
	cerclage	
	Describe and discuss causes, clinical features,	
	diagnosis, investigations; monitoring of foetal	
OG16.3	well-being, including ultrasound/ Doppler;	1
	principles of management; prevention and	
	counselling in FGR	
	Describe and discuss the assessment of maturity	
0G18.1	of the new born, diagnosis of birth asphyxia,	1
	principles of resuscitation, common problems.	
	Enumerate the indications and describe and	
	discuss the legal aspects, indications, methods	
0G20.1	for first and second trimester MTP; complications	2
	and management of complications of Medical	
	Termination of Pregnancy	
	Discuss Pre-conception and Pre Natal Diagnostic	
0G20.3	Techniques (PC& PNDT) Act 1994 & its	1
	amendments	
	Describe and discuss the temporary and	
0G21.1	permanent methods of contraception, indications,	3
	technique and complications; selection of	
	0G13.2 0G14.2 0G14.3 0G14.4 0G15.1 0G15.1 0G16.3 0G18.1 0G20.1	OG12.8complications, diagnosis and management of isoimmunisation in pregnancyOG13.2Define, describe the causes, pathophysiology, diagnosis, investigations and management of preterm labour, PROM and post-dated pregnancyOG14.2Discuss the mechanism of normal labour, Define and describe obstructed labour, its clinical features; prevention; and managementOG14.3Describe and discuss rupture uterus, causes, diagnosis and management.OG14.4Describe and discuss the classification; diagnosis and management of abnormal labourOG15.1Enumerate and describe the indications and steps of common obstetric procedures, technique and complications: Episiotomy, vacuum extraction; low forceps; Caesarean section, assisted breech delivery; external cephalic version; cervical cerclageOG16.3Describe and discuss causes, clinical features, diagnosis, investigations; monitoring of foetal well-being, including ultrasound/ Doppler; principles of management; prevention and counselling in FGROG20.1for first and second trimester MTP; complications and management of complications of Medical Termination of PregnancyOG20.3Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC& PNDT) Act 1994 & its amendmentsOG21.1permanent methods of contraception, indications,

		patients, side effects and failure rate including	
		OCPs, male contraception, emergency	
		contraception and IUCD	
		Describe and discuss the physiology of puberty,	
19	0G23.1	features of abnormal puberty, common problems	2
19	0623.1	and their management	Z
		Define, classify and discuss abnormal uterine	
20	0G24.1	bleeding, its aetiology, clinical features,	2
20	0024.1	investigations, diagnosis and management	2
		Describe and discuss the causes of primary and	
		secondary amenorrhea, its investigation and the	
21	0G25.1	principles of management.	
		Describe and discuss the aetio-pathogenesis,	2
		clinical feature, investigation and implications on	-
		health and fertility and management of	
22	OG 26.1	endometriosis and adenomyosis.	
		Describe the causes, prevention, clinical features,	
23	0G26.2	principles of management of genital injuries and	2
		fistulae	
		Describe and discuss the aetiology, pathology,	
24	0G27.1	clinical features, differential diagnosis,	1
24	0027.1	investigations, management and long term	I
		implications of sexually transmitted infections	
		Describe and discuss the aetiology, pathology,	
25	0G27.2	clinical features, differential diagnosis,	1
20	0027.2	investigations, management and long term	•
		implications of genital tuberculosis	
		Describe and discuss the aetiology, pathology,	
26	0G27.3	clinical features, differential diagnosis,	1
_		investigations, management and long term	
		implications of HIV	
		Describe and discuss the aetiology, pathology,	
27	0G27.4	clinical features, differential diagnosis,	2
		investigations, management and long term	
		implications of Pelvic Inflammatory Disease	
20	0000 1	Describe and discuss the common causes,	1
28	0G28.1	pathogenesis, clinical features, differential	1
		diagnosis; investigations; principles of	

		management of infertility – methods of tubal	
		patency, ovulation induction, assisted	
		reproductive techniques	
29	0G28.2	Enumerate the assessment and restoration of tubal latency	1
30	OG28.3	Describe the principles of ovulation induction	1
31	0G28.4	Enumerate the various Assisted Reproduction Techniques	1
32	0G29.1	Describe and discuss the aetiology; pathology; clinical features; differential diagnosis; investigations; principles of management, complications of fibroid uterus	2
33	0G30.1	Describe and discuss the etiopathogenesis; clinical features; differential diagnosis; investigations; management, complications of PCOS	2
34	0G30.2	Enumerate the causes and describe the investigations and management of hyperandrogenism	1
36	0G31.1	Describe and discuss the aetiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus	2
37	0G32.1	Describe and discuss the physiology of menopause, symptoms, prevention, management and the role of hormone replacement therapy.	2
38	0G32.2	Enumerate the causes of postmenopausal bleeding and describe its management	2
39	0G33.1	Classify, describe and discuss the aetiology, pathology, clinical features, differential diagnosis, investigation and staging of Carcinoma Cervix	2
40	0G33.2	Describe the principles of management including surgery and radiotherapy of Benign, Pre- malignant (CIN) and Malignant Lesions of the Cervix	1
41	0G34.1	Describe and discuss aetiology, pathology, staging clinical features, differential diagnosis, investigations, staging	3

		laparotomy and principles of management of endometrial cancer	
42	0G34.2	Describe and discuss the aetiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy	3
43	OG34.3	Describe and discuss the aetiology, pathology, classification, staging, clinical features, differential diagnosis, investigations and management of gestational trophoblastic disease	3

ii. Small Group Teaching (SGT)

		Small Group Teaching (SGT) Tutorials / Seminar / Group discussions etc.	
SI. No		Topic: Competency (Number & Details)	No. of Hours
1	0G6.1	Describe and discuss the clinical features of pregnancy , derive and discuss its differential diagnosis ,elaborate the principles underlying and interpret pregnancy tests	2
2	OG8.4	Describe and demonstrate clinical monitoring of maternal and foetal well-being, interpret the findings of a given CTG record.	2
3	OG8.5	Describe and demonstrate pelvic assessment in a model, describe the timing of pelvic assessment and the steps.	2
4	OG8.8	Enumerate the indications and describe the investigations including the use of ultrasound in the initial assessment and monitoring in pregnancy	2
5	0G9.1	Classify, define and discuss the aetiology and management of abortions including threatened, incomplete, inevitable, missed and septic abortion	2
6	0G9.2	Complications in early pregnancy: describe the steps in MTP evacuation	2
7	OG9.3	Discuss the aetiology, 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	2
8	0G13.1	Enumerate and discuss the physiology of normal labour, mechanism of labour in occiput-anterior presentation; monitoring of labour including partogram: conduct of labour, pain relief, principles of induction and acceleration of labour; management of third stage of labour	4
9	0G14.1	Enumerate and discuss the diameters of maternal pelvis and types	2
10	OG16.1	Enumerate and discuss causes, prevention, diagnosis, management, appropriate use of blood and blood products in postpartum haemorrhage	2
11	0G16.2	Describe and discuss uterine inversion – causes, prevention, diagnosis and management.	2

12	0G17.3	Describe and discuss the clinical features, diagnosis and management of mastitis and breast abscess	2
13	OG18.3	Describe and discuss the diagnosis of birth asphyxia	2
14	0G18.4	Describe the principles of resuscitation of the new-born and enumerate the common problems encountered	2
15	0G19.1	Describe and discuss the physiology of puerperium, its complications, diagnosis and management; counselling for contraception, puerperal sterilization	2
16	0G20.1	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
17	OG20.3	Discuss Pre-conception and Pre Natal Diagnostic Techniques (PC&PNDT) Act 1994 & its amendments	2
18	0G11.1	Describe the etiopathology, clinical features, diagnosis and investigations, complications and management of multiple pregnancies	2
19	12.1	Define, classify and describe the aetiology and pathophysiology, early detection, investigations; principles of management of hypertensive disorders of pregnancy and eclampsia, complications of eclampsia.	4
		Assessment -MCQs	2
20	0G12.3	Define, classify and describe the aetiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labour, and complications of diabetes in pregnancy	4
21	0G12.4	Define, classify and describe the aetiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labour, and complications of heart diseases in pregnancy	4
22	0G12.6	Describe the clinical features, detection, effect of pregnancy on the disease and impact of the disease on pregnancy complications and management of liver disease in pregnancy	2

		Τ	1
23	0G13.2	Define, describe the causes, pathophysiology, diagnosis, investigations and management of preterm labour, PROM and post-dated pregnancy	4
		Discuss the mechanism of normal labour, Define and	
24	0G14.2	describe obstructed labour, its clinical features;	4
24		prevention; and management	4
		Describe and discuss rupture uterus, causes, diagnosis	
25	0G14.3	and management.	2
		Describe and discuss the classification; diagnosis;	
26	0G14.4	management of abnormal labour	2
		Enumerate and describe the indications and steps of	
		common obstetric procedures, technique and	
27	0G15.1	complications: Episiotomy, vacuum extraction; low	6
		forceps; Caesarean section, assisted breech delivery;	-
		external cephalic version; cervical cerclage	
		Describe and discuss the temporary and permanent	
		methods of contraception, indications, technique and	
28	0G21.1	complications; selection of patients, side effects and	6
		failure rate including OCP s, male contraception,	
		emergency contraception and IUCD	
29	0G21.2	Describe & discuss PPIUCD programme	2
		Define, classify and discuss abnormal uterine bleeding, its	
30	0G24.1	aetiology, clinical features, investigations, diagnosis and	2
		management	
		Describe and discuss the etiopathogenesis, clinical	
31	0G26.1	features; investigation and implications on health and	4
JI	0020.1	fertility and management of endometriosis and	4
		adenomyosis	
32	0G26.2	Describe the causes, prevention, clinical features,	2
52	0020.2	principles of management of genital injuries and fistulae	2
		Describe and discuss the aetiology, pathology, clinical	
33	0G27.1	features, differential diagnosis, investigations,	2
	0027.1	management and long term implications of sexually	~
		transmitted infections	
		Describe and discuss the aetiology, pathology, clinical	2
34	0G27.2	features, differential diagnosis, investigations,	
		management and long term implications of genital	
		tuberculosis	

	1		1
35	0G27.3	Describe and discuss the aetiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of HIV	2
36	0G27.4	Describe and discuss the aetiology, pathology, clinical features, differential diagnosis, investigations, management and long term implications of Pelvic Inflammatory Disease	2
37	0G31.1	Describe and discuss the aetiology, classification, clinical features, diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus	2
38	0G32.1	Describe and discuss the physiology of menopause, symptoms, prevention, management and the role of hormone replacement therapy.	2
39	0G32.2	Enumerate the causes of postmenopausal bleeding and describe its management	2
40	0G33.1	Classify, describe and discuss the aetiology, pathology, clinical features, differential diagnosis, investigations and staging of cervical cancer	2
41	0G33.2	Describe the principles of management including surgery and radiotherapy of Benign, Pre-malignant (CIN) and Malignant Lesions of the Cervix	4
42	0G33.4	Enumerate the methods to prevent cancer of cervix including visual inspection with acetic acid (VIA), visual inspection of cervix with Lugol's iodine (VILI), pap smear and colposcopy	2
43	0G34.1	Describe and discuss aetiology, pathology, staging clinical features, differential diagnosis, investigations, staging laparotomy and principles of management of endometrial cancer	4
44	0G34.2	Describe and discuss the aetiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy	4
45	0G34.3	Describe and discuss the aetiology, pathology, classification, staging, clinical features, differential diagnosis, investigations and management of gestational trophoblastic disease	4
		Assessment -MCQs	2

b. Self Directed Learning (SDL)

Self Directed Learning (SDL)			
SI. No	Topic: Competency (Number & Details)	No. of Hours	
OG4.1	Development of the foetus and the placenta: Define teratogenicity, discuss the significance of critical period of embryogenesis. Enlist 10 common teratogenic agents and discuss the categorisation of drugs in pregnancy by FDA.	3 Hours	
OG16.1	Enumerate and discuss causes, prevention, diagnosis, management, appropriate use of blood and blood products in postpartum haemorrhage	3 Hours	
OG30.1	Describe and discuss the etiopathogenesis; clinical features; differential diagnosis; investigations; management, complications of PCOS	3 Hours	
0G33.4	Enumerate the methods to prevent cancer of cervix including visual inspection with acetic acid (VIA), visual inspection of cervix with Lugol's iodine (VILI), pap smear and colposcopy	3 Hours	
0G27-1	Describe and discuss the aetiology, pathology, clinical features, investigations, management and long term implications of sexually transmitted infections.	3 Hours	

5. Practical

i. Bedside Clinics

	Bedside Clinics						
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours				
1	OG 10.1 Define, classify & describe the aetiology, pathogenesis, clinical features, ultrasonography, differential diagnosis and management of antepartum haemorrhage	wards	3 hours				

2	OG 10.2 Define, classify and describe the aetiology and pathophysiology, early detection, investigations, principles of management of hypertensive disorders of pregnancy and eclampsia ,complications of	wards	3 hours
3	eclampsia 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, , counselling for contraception, puerperal sterilization	wards	1 hour
5	OG 24.1 Define, classify and discuss abnormal uterine bleeding, its aetiology, 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 aetiology, clinical features; complications of fibroid uterus	wards	3 hours
8	OG 31.1 Describe and discuss the aetiology, classification, clinical diagnosis, investigations, principles of management and preventive aspects of prolapse of uterus	wards	3 hours
9	OG 34.1 Describe and discuss aetiology, 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 aetiology, pathology, classification, staging of ovarian cancer, clinical features, differential diagnosis, investigations, principal of management including staging laparotomy.	wards	3 hours

11	OG 35.2, 35.3 Arrive at a logical provisional diagnosis after examination. Recognise situations, which call for urgent or early treatment at secondary and tertiary centres and make a prompt referral of patients after giving first aid or emergency treatment.	wards	3 hours
12	OG 8.4 Describe and demonstrate clinical monitoring of foetal and maternal well-being	Labour 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.	Labour room	1 hour
14	OG 13.1 Enumerate and discuss the physiology of normal labour, mechanism of labour in occiput anterior presentation, monitoring of labour including partogram, conduct of labour, pain relief, principles of Induction and acceleration of labour, management of third stage of labour	Labour room	2 hours
15	OG 13.2 Define, Describe the causes, diagnosis, investigations and management of preterm labour, PROM and post-dated pregnancy	Labour room	1 hour
16	OG 14.2 Discuss the mechanism of normal labour. Define and describe obstructed labour, its clinical features; prevention and management.	Labour room	2 hours
17	OG 14.4 Describe and discuss the classification, diagnosis and management of abnormal labour	Labour room	1 hour
18	OG 18.3 Describe and discuss the diagnosis of birth asphyxia	Labour 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.	Labour room	1 hour

	1		1
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, techniques; selection of patients, including OC pills ,Emergency contraception and IUCD.	OPD	2 hours
23	OG 22.2 Describe and discuss the aetiology 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;, 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, describe the management.	Operative theatre	1 hour
26	OG 21.2 Describe and discuss PPIUCD programme.	Operative theatre	1 hour
27	OG 34.4 Operative Gynaecology: Understand and describe the technique and complications: Dilatation & Curettage (D &C) EA- ECC: Cervical biopsy: Abdominal hysterectomy: myomectomy: surgery for ovarian tumours; staging laparotomy; hysteroscopy; management of postoperative complications.	Operative theatre	3 hours
28	OG 19.3 Observe/assist in performance of tubal ligation.	Operative theatre	1 hour

Clinical Clerkship / Evening Clinics					
Day	Торіс	Suggested TL Method	No. of Hours		
OPD	Document all the admissions in the designated unit.	Log book writing	1		
Post OPD	Writing complete case records.	Log book	1		
ОТ	Observe and document the steps of the Obstetric and Gynaecological procedures.	Log book	1		
Post OT	Observe the postoperative management of major Obstetric and Gynaecological surgeries.		1		
Ward Rounds	Discuss the case history and management of the patient in the allotted beds in the OBG wards.	Log book	1		

ii. Clinical Clerkship / Evening Clinics

iii. Skill Lab

SI. No	Topic: Competency (Number & Details)	No. of Hours
1	OG 35.15 - Demonstrate the correct technique to insert and remove an IUD in a simulated/ supervised environment	2
2	OG 35.17 - Demonstrate the correct technique of urinary catheterisation in a simulated/ supervised environment	2
3	OG 33.3 - Describe and demonstrate the screening for cervical cancer in a simulated environment	2
4	OG 36.3- Demonstrate the correct technique of punch biopsy of uterus in a simulated/ supervised environment	2
5	OG 8.5- Describe and demonstrate pelvic assessment in a model	2
6.	OG 14.4- Describe and discuss the classification; diagnosis; management of abnormal labour	2

iv. Certifiable Skills

SI. No	Skills that require certification	Criteria for certification	No. of Attempts
1	OG 8.5 Describe and demonstrate pelvic assessment in a model	ME/DME	2
2	OG 13.2 Enumerate and discuss the physiology of normal labour, mechanism of labour in occiput-anterior presentation; monitoring of labour including partogram; conduct of labour, pain relief; principles of induction and acceleration of labour; management of third stage of labour.	ME/DME.	2
3	OG 33.3Describe and demonstrate the screening for cervical cancer in a simulated environment OG 35.12Obtain a PAP smear in a stimulated environment	ME/DME	2

b. AETCOM Module

	AETCOM Module						
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours				
1	SL NO 4.2 Case studies in medico-legal and ethical situations Medical termination of pregnancy	Group discussion SDL	5 hours/2 hours				
2	4.8 Dealing with death As per module (alternating with General Surgery on yearly basis)	Group discussion SDL	5 hours/2 hours				

c. Pandemic Module

	Pandemic Module					
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours			
1	Not Applicable					
2						
3						
4						
5						

6. SCHEME OF EXAMINATION

a. Eligibility Criteria

- Students must secure at least 50% 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 Summative / University examination.
- Student should have a minimum of 75% attendance in Theory and 80% in Practical classes to be eligible to appear for Summative / University examination.
- Student must have completed the required certifiable competencies and completed the log book

b. Internal Assessment

- i. Theory
- Multiple (a minimum of two) Internal Assessments (IA) will be conducted.
- The last IA will be conducted as Preliminary examination, which will mirror the university exams in marks and pattern.
- The final IA marks will be derived based on the table given below.
- The blueprint of all the IAs is also given in the table below.

<i>Table 1: Theory Internal Assessment</i>
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DEPARTMENT OF OBG																					
	Integrated phase-wise Internal Assessment																				
THEORY		Pha	Phase 2 Phase 3-1		Phase 3-2		Final														
		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 tests/	05	05	05	05	10	10														
FA	MCQs/ Tutorials/	05	05	05	05	05	05	05	05	05	05	05	05	05	05	03	05	05	10	10	
	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

Table 2: Blueprint of IA (Theory)

BLUEPRINT THEORY IA			Nur	nber of q	uestions	S			
	IA-1	IA-2*	IA-3	IA-4*	A-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 h	ave a w	eightage	of 5 ma	rks			

6.1.4. Practical

- Each clinical posting will include and End of Posting (EoP) test.
- The marks allotted for each EoP is tabulated below.
- The preliminary examination will include a practical examination which will mirror the university examination in marks and pattern.

	Integrated pl	nase-wise In	ternal Assess	ment		
	· · ·	Phase 2	Phase 3-1	Phas	se 3-2	
	PRACTICAL	4 weeks	4 weeks	8 weeks	4 weeks	Tota
		EOP-1	EOP-2	EOP-3	EOP-4	
	Clinical skills					
	assessment	30	30	70	70	
EOP	(OSCE/ Mini-CEX/ Case	30	50	70	70	
	presentation/ AETCOM)					
	Viva-voce/ AETCOM	10	10	10	10	
	Formative assessment					
Others	including Clinical-	05	05	10	10	
Oulers	Clerkship					
	Logbook/ Record book	05	05	10	10	
	Total	50	50	100	100	300
	FINAL EOP IA MARKS [#] = 200	(final total	multiplied by	0.66 and ro	unding it)	
	At least one EOP is to	be conduct	ed with OSCE	as a part of	it.	
AETCOM	may be included as an OSCE	station or as	s a part of viva	a-voce during	g EOP, if it ne	eds to
	be assessed in practical (R	efer compet	ency booklet	& AETCOM r	nodule)	
Prelimina	ry Practical Examinations wi Universi		ted for 200 m Examinations		nirror Summ	ative /
Final r	practical IA marks (200) =		P marks (200		nary Exam (200)
				2		

- Day to Day assessment will be performed and it will be added to the iA marks of theory as well as practical (as in tables above)
- Formative (Day to Day) assessment will be calculated based on attendance, maintenance of record books, log books, journals, case sheets etc
- Any assignments, presentations, seminars or other academic activity of note shall also reflect in the formative assessment

6.2.1. Remedial Assessment

 Remedial Examinations will be conducted as per the policy of Shri Dharmasthala Manjunatheshwara University and will be based on NMC guidelines.

c. Summative Assessment

- i. Pass Criteria
- A candidate shall obtain 50% marks in university conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject.
- In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

ii. Theory Summative Examination Format

- Third Professional Part II (Final Professional) examination shall be at the end of training (14 months including 2 months of electives) in the subjects of General Medicine, General Surgery, Obstetrics & Gynecology and Pediatrics.
- The disciplines of Orthopedics, Anesthesiology, Dentistry and Radio diagnosis will constitute 25% of the total theory marks incorporated as a separate section in paper II of General Surgery.
- The disciplines of Psychiatry and Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis will constitute 25% of the total theory marks in General Medicine incorporated as a separate section in paper II of General Medicine.

iii. Blueprint of Theory Summative Examination

Blueprint of Theory Summative Examination	Paper 1	Paper 2
Multiple Choice Questions (MCQ) (1 mark each)	20	20
Structured Long Essay Questions (SLEQ) (10 marks each)	02	02
Short Essay Questions (SEQ) (5 marks each)	08	08
Short Answer Questions (SAQ) (2 marks each)	10	10
TOTAL	100	100
AETCOM should have a weightage	of 5 marks in each	paper

Table 4: Blueprint of theory summative examination

В	Blueprint of Theory Summative Examination (Topic based weightage)					
Topic / System Paper 1	Total Weightage	MCQ	SLEQ	SEQ	SAQ	Total Marks
 Development of fetus and placenta 	5 %	1			1	3
2. Preconception counseling	5 %	1			1	3
3. Antenatal care	10 %	1		1		6
 Complications in early pregnancy and antepartum hemorrhage 	10 %	1		1	1	8
5. Multiple pregnancy	5 %	1		1	1	8
6. Medical disorders in pregnancy	20 %	5	1	1	1	22
7. Labor	20 %	5	1	1	2	24
8. Lactation	5 %	1		1		6
9. Medical termination of pregnancy	10 %	2		1	1	9
10. Contraception	10 %	2		1	2	11
Total	100	20	20	40	20	100
Paper 2						
 Normal and abnormal puberty 	5 %				2	4
2. Abnormal uterine bleeding	10 %	1	1			11
3. Amenorrhea	5 %	1			2	5
 Genital tract injuries and fistulae 	5 %				1	2
5. Genital infections	10 %	1		1		6
6. Infertility	10 %	2			2	6

Table 5: Blueprint (Topic based) of theory summative examination

7. Uterine fibroids	5 %	1		1	1	8
8. PCOS and hirsuitism	5 %	1		1		6
9. Uterine prolapse	10 %	2		1		7
10. Menopause	5 %	1		1		6
11. Benign, pre- malignant and malignant lesions of the cervix	15 %	5		2	1	17
12. Benign and malignant diseases of the uterus and ovaries	15 %	5	1	1	1	22
7. AETCOM (5 marks per paper)						
Total	100	20	20	40	20	100

i. Practical Summative Examination Format

	Summative on Format	Number of cases	Marks allotted for each case	Total (Marks)
	Long cases	Long cases 2 cases		100
Clinical Cases	Short cases	nil	nil	
	Case scenarios			
Ward	Cases	nil	nil	
Spot	Spotters		10 marks each	50
Viva-voce		5 stations	10 marks each	50
Others				
T0	ΓAL			200

8. INTEGRATION (HORIZONTAL & VERTICAL)

	INTEGRATION							
SI.	Competency	Competency Detail	Nesting / Sharing /	Integration with departments				
no	Number	competency betan	Aligning / Correlation	Horizontal	Vertical			
1.	OG 12.3	Define, classify and describe the aetiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labour, and complications of Diabetes in pregnancy	Aligning /correlation	Medicine				
2.	OG 12.4	Define, classify and describe the aetiology, pathophysiology, diagnosis, investigations, criteria, adverse effects on the mother and foetus and the management during pregnancy and labour, and complications of heart diseases in pregnancy	Aligning /correlation	Medicine				
4.	OG 18.1.2,3,4	Demonstrate the steps of neonatal resuscitation in a simulated environment Describe and discuss the diagnosis of birth asphyxia Describe the principles of resuscitation of the new-born and enumerate the common problems encountered	Aligning /correlation	Paediatrics				

6.	OG 12.2	Define, classify and describe the aetiology, and pathophysiology, diagnosis, investigations, adverse effect on mother and foetus, management during pregnancy and labour and complications of anaemia in pregnancy	Aligning /correlation	Patholog y
7.	OG 22.2	Describe and discuss the aetiology with special emphasis on Candida, T. vaginalis, bacterial vaginosis, characteristics, clinical diagnosis, investigations, genital hygiene, management of common causes and the syndromic management	Aligning /correlation	Microbiol ogy

9. <u>RECOMMENDED BOOKS</u>

9.1 Text books

- 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. Shaw's A Text book of Gynaecology, Padubidri VG, Shirish N Daftary, 17th edition, Elsevier publication
- 4. Dutta DC, Text book of Gynaecology, 8th edition

9.2 **Reference books**

- 1. Williams Obstetrics Cunningham, Bloom, Sponge, et al 25th edition, Mc Craw Hill education Publication.
- 2. Fernando Arias Amarnath Bhinde, Savaratanum Arulkumaran et al 5th edition, Elsevier publication.
- 3. Munrokerr's operative obstetrics, Thomas F, Baskett Andrew, Savratanum Arulkumaran, 12th edition, Bailliere Tindall, London.
- 4. Jeffcoate's Principles of Gynaecology, Pratapkumar, Narendra Malhotra, 9th edition, Jaypee publication.

- 5. Williams Gynaecology Hoffman, John, Joseph et al, 3rd edition, Mc Craw Hill education Publication.
- 6. Shaw's operative Gynaecology, Christopher Hudson, Marcus Setchell, 7th edition, Elsevier publication.
- 7. Speroff's Clinical Gynecologic Endocrinology and Infertility, 9th Edition, South Asian Edition.

9.3 Journals

- 1. The Journal of Obstetrics and Gynaecology of India
- 2. British Journal of Obstetrics and Gynaecology (BJOG)
- 3. American Journal of Obstetrics and Gynecology (AJOG)

10. <u>GOAL</u>

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.

11. OBJECTIVES

a. Knowledge

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

b. Skills

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

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

c. Attitude & 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.

d. 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.

12. TEACHING HOURS

THEORY	Teaching-Learning Method	No. of Hours
А	Large Group Teaching (LGT)	20
В	Small Group Teaching (SGT)	35
С	Self Directed Learning (SDL)	10
	Total	65

PRACTICAL	Teaching-Learning Method	No. of Weeks
А	Bedside Clinics	4
	Total	4

OTHERS	Teaching-Learning Method	No. of Hours
А	AETCOM	
В	Pandemic Module	
С	Skill Lab	
	Total	

13. <u>COURSE CONTENT</u>

a. Theory

i. Large Group Teaching (LGT)

Large Group Teaching (LGT) Theory Classes						
SI. No.	PE	Topic/ System : (With Competency Number) core/ non-core competency	Core	Large group teaching domain K LEVEL K/KH,	No. of Hours	
		Genito-Urinary system				
1	PE 21.1	Enumerate the etiopathogenesis, clinical features, complications and management of Urinary Tract infection (UTI) in children				
	21.1.1	Define UTI as per standard criteria.	Y	K KH	1	
	21.1.2	Enumerate the organisms causing UTI in children of different ages.	у	К КН		
	21.1.3	Describe the clinical features of simple & complicated UTI.	у	K KH		
	21.1.4	Outline diagnostic workup for children with UTI at different ages.	у	ККН		
	21.1.5	Describe the treatment including the choice of antibiotics and duration of antibiotic therapy for treating simple & complicated UTI.	у	K KH		
	21.1.6	Enumerate the complications of UTI children.	у	К КН		

	Enumerate the etiopathogenesis, clinical	Y	K KH	2
PE 21.2	features,			
	complications and management			
	of acute post- streptococcal			
	Glomerular Nephritis in children			
	Discuss the approach and referral	Y	K KH	
PE 21.4	criteria to a child			
	with hematuria			
	Discuss the approach and referral			3
PE 21.3	criteria to a child			
	with Proteinuria			
21.3.1	List causes of glomerular & non	Y	ККН	
	glomerular Proteinuria.			
21.3.2	Define nephrotic syndrome.	Y	ККН	
21.3.3	Enumerate causes of nephrotic	Y	ККН	
	syndrome.			
	Outline the approach to a child with first			
21.3.4	episode of nephrotic syndrome.	Y	К КН	
21.3.5	List indications of kidney biopsy in	Y	K KH	
	nephrotic syndrome.			
21.3.6	Outline the management of	Y	K KH	
	initial episode nephrotic			
	syndrome and subsequent			
	relapse.			
21.3.7	List the Criteria for referral of a child with	Y	К КН	
	proteinuria.			
	Enumerate the etiopathogenesis,			
PE 21.5	clinical features, complications and	Y	ККН	4
	management of Acute Renal Failure in			
	children			

2		Cardiovascular system- Heart Diseases			
	PE 23.1	Discuss the Hemodynamic changes, clinical presentation, complications and management of acyanotic Heart Diseases -VSD, ASD and PDA	Y	ККН	5
	PE 23.2	Discuss the Hemodynamic changes, clinical presentation, complications and management of Cyanotic Heart Diseases – Fallot Physiology	Y	ККН	6
	PE 23.3	Discuss the etiopathogenesis, clinical presentation and management of cardiac failure in infant and children	Y	ККН	7
	PE 23.4	Discuss the etiopathogenesis, clinical presentation and management of Acute Rheumatic Fever in children	Y	ККН	8
3		Acute and chronic liver disorders			
	PE 26.2	Discuss the etiopathogenesis, clinical features and management of Fulminant Hepatic Failure in children	Y	КК	9
	PE 26.4	Discuss the etiopathogenesis, clinical features and management of Portal Hypertension in children	Y	кк	10
	PE 26.11	Enumerate the indications for Upper GI endoscopy	Y	ККН	

4		Pediatric Emergencies -			
	PE 27.5	Describe the etiopathogenesis, clinical approach and management of Shock in children	Y	К КН	11
	PE 27.6	Describe the etiopathogenesis, clinical approach and management of Status epilepticus	Y	К КН	12

		Describe the etiopathogenesis, clinical			
	PE	approach and	Y	К КН	13
	27.7	management of an unconscious child			
5		Respiratory system			
		Discuss the etiopathogenesis, clinical			
	PE28.	features and	Y	K KH	14
	5-7.	management of Epiglottitis, of Acute			
		laryngotracheobronchitis and Stridor			
		in children			
		Describe the etiopathogenesis,			
		diagnosis, clinical			
	PE	features, management and	Y	K KH	15
	28.18	prevention of lower respiratory			
		infections including bronchiolitis,			
		wheeze associated LRTI Pneumonia			
		and empyema			
		Describe the etiopathogenesis,			
	PE	diagnosis, clinical	Y	ккн	16
	28.19	features, management and	•		10
	20.15	prevention of asthma in children			
6		Anemia and other Hemato-			
		oncologic disorders			
		Discuss the etiopathogenesis, clinical			
		features and			

	PE 29.4	management of Hemolytic anemia, Thalassemia Major, Sickle cell anemia, Hereditary spherocytosis, Auto- immune hemolytic anemia and hemolytic uremic syndrome.	Y	ККН	19
	PE 29.6	Discuss the cause of thrombocytopenia in children: describe the clinical features and management of idiopathic Thrombocytopenic Purpura.	Y	К КН	18
	PE 29.2	Discuss the etiopathogenesis, clinical features and management of iron deficiency anemia.	Y	ККН	19
7		Central Nervous system			
	PE 30.15	Discuss the etiopathogenesis, clinical features and management of Ataxia in children	Y	ККН	20

4.1.2 Small Group Teaching ; (SGT)

		Small Group Teach Tutorials / Seminar / Group	•	•	
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
1		Adolescent Health & common problems related to Adolescent Health			
	6.1.1	Define adolescence.	Y	кк	1
	6.1.2	Enumerate the stages of	Y	к кн	

	adolescence.			
PE 6.2.	Describe the physical, physiological and psychological changes during adolescence (Puberty)	Y	к кн	
6.2.1	Describe the physical changes during adolescence.	Y	к кн	
6.2.2	Describe the physiological changes during adolescence.	Y	к кн	
6.2.3	Describe the psychological changes during adolescence.	Y	к кн	
PE6.3	Discuss the general health problems during adolescence	Y	ккн	2
6.3.1	Enumerate the general health problems of adolescence	Y	к кн	
6.3.2	Describe the general health problems of adolescence	Y	ККН	
PE6.5	Explain the Adolescent Nutrition and common nutritional problem	Y	кн	3
6.5.1	Describe the nutritional requirements of adolescents.	Y	к кн	
6.5.2	Discuss the nutritional problems in adolescents.	Y	К КН	
6.6	Describe the common adolescent eating problems like Anorexia nervosa and Bulimia nervosa.	N	к кн	
6.7.1	Describe the common mental health problems during adolescence.	Y	к кн	

2		Toxic elements and free radicals and oxygen toxicity			
	PE14.1	Discuss the risk factors, clinical features, diagnosis and management of Lead Poisoning	N	ККН	4
	PE14.2	Discuss the risk factors, clinical features, diagnosis and management of Kerosene ingestion	N	ККН	
	PE14.3	Discuss the risk factors, clinical features, diagnosis and management of Organophosphorous poisoning	N	ККН	5
	PE14.4	Discuss the risk factors, clinical features, diagnosis and management of paracetamol poisoning	N	ККН	6
	PE14.5	Discuss the risk factors, clinical features, diagnosis and management of Oxygen toxicity	N	ККН	
3		Fluid and electrolyte balance			
	PE15.1	Discuss the fluid and electrolyte requirement in health and disease	Y	ККН	7
	15.1.1	State the fluid requirement of a healthy neonate.	Y	КК	
	15.1.2	Describe the fluid and electrolyte requirements of healthy children of different ages.	Y	кк	
	15.1.3	Describe the fluid requirements in common diseases of children.	Y	кк	

		Discuss the clinical features and complications of fluid and electrolyte imbalance and outline the management			
	15.2.1	Define hyponatremia and hypernatremia.	Y	КК	8
	15.2.5	Enumerate the symptoms and signs of hyponatremia and Hypernatremia.	Y	к кн	
	15.2.7	Outline the management of a child with hyponatremia / hypernatremia.	Y	к кн	
	15.2.2	Define hypokalemia and hyperkalemia.	Y	КК	
	15.2.8	Outline the management of a child with hypokalemia or Hyperkalemia.	Y	K SH	
	15.2.3	Describe the clinical features of a child who has dehydration or fluid overload.	Y	ККН	9
	15.2.4	Outline the management of a child who has dehydration or fluid overload.	Y	к кн	
4		Genito-Urinary system			
	PE 21.6	Enumerate the etiopathogenesis, clinical features, complications and management of chronic kidney disease in children.	Y	ККН	10
	PE 21.17	Describe the etiopathogenesis, grading, clinical features and management of hypertension in children	Y	к кн	11

5		Rheumatologic problem			
	PE 22.1	Enumerate the common Rheumatological problems in children. Discuss the clinical approach to recognition and referral of a child with Rheumatological problem	Y	ККН	12
	PE 22.3.1	Describe the diagnosis and management of common vasculitic disorders including Henoch Schonlein Purpura, Kawasaki Disease.	N	ККН	13
	PE 22.3.2	Describe the diagnosis and management oF disorders including SLE, JIA	N	ККН	14
6		Cardiovascular system- Heart Diseases			
	PE 23.6	Discuss the etiopathogenesis, clinical features and management of Infective endocarditis in children	Y	ККН	15
7		Acute and chronic liver disorders			
	PE 26.1	Discuss the etiopathogenesis, clinical features and management of acute hepatitis in children	Y	КК	16
	PE 26.3	Discuss the etiopathogenesis, clinical features and management of chronic liver diseases in children.	Y	КК	17

8		Pediatric Emergencies -			
	PE 27.2	Describe the etiopathogenesis, clinical approach and management of cardiorespiratory arrest in children	Y	ККН	18
	PE 27.3	Describe the etiopathogenesis of respiratory distress in children	Y	ККН	19
	PE 27.4	Describe the clinical approach and management of respiratory distress in children	Y	ккн	
	PE 27.11	Explain the need and process of triage of sick children brought to health facility	Y	ККН	20
	PE 27.12	Enumerate emergency signs and priority signs	Y	ККН	21
	PE 27.13	List the sequential approach of assessment of emergency and priority signs	Y	ККН	
9		Respiratory system			
	PE 28.1	Discuss the etiopathogenesis, clinical features and management of Naso pharyngitis	Y	ККН	22
	PE 28.8	Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children	Y	ККН	
10		Anemia and other Hemato- oncologic disorders			
	PE 29.7	Discuss the etiology, classification, pathogenesis	Y	К КН	23

		and clinical features of Hemophilia in children.			
	PE 29.8-9	Discuss the etiology, clinical presentation and management of Acute Lymphoblastic Leukemia & Lymphoma in Children.	N	к кн	24
11		Central Nervous system			
	PE 30.1	Discuss the etiopathogenesis, clinical features, complications, management and prevention of meningitis (bactrerial, Tb & viral) in children	Y	ККН	25
	PE 30.3	Discuss the etiopathogenesis, classification, clinical features, complication and management of Hydrocephalus in children	Y	ККН	26
	PE 30.4	Discuss the etiopathogenesis, classification, clinical features, and management of Microcephaly in children	Y	ККН	27
	PE 30.7	Discuss the etiopathogenesis, clinical features, complications and management of Febrile seizures in children	Y	ККН	28

	PE 30.8	Define epilepsy. Discuss the pathogenesis, clinical types, presentation and management of Epilepsy in children Define Status Epilepticus.	Y	ККН	29
	PE 30.9	Discuss the clinical presentation and management OF IT.	Y	ККН	
	PE 30.10	Discuss the etiopathogenesis, clinical features and management of Mental retardation in children	γ	ККН	30
	PE 30.11	Discuss the etiopathogenesis, clinical features and management of children with cerebral palsy	Y	ККН	31
	PE 30.12	Enumerate the causes of floppiness in an infant and discuss the clinical features, differential diagnosis and management	Y	ККН	32
	PE 30.14	Discuss the etiopathogenesis, clinical features and management of Duchene muscular dystrophy	Y	ККН	33
12		Endocrinology			
	PE 33.1	Describe the etiopathogenesis clinical features, management of Hypothyroidism in children	Y	к кн	34

PE 33.4	Discuss the etiopathogenesis, clinical types, presentations, complication and	Y	ККН	35
	management of Diabetes mellitus in children			

4.1.3 Self Directed Learning ; (SDL)

		Self Directed Lea	rning (SD	L)	
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
1	PE 27.9	Discuss oxygen therapy, in Pediatric emergencies and modes of administration	Y	ККН	1
2	PE 28.2 & 28.3	Discuss the etiopathogenesis of Pharyngotonsillitis ,the clinical features and management of Pharyngotonsillitis	Y	ККН	2
3	PE28.4	Discuss the etiopathogenesis, clinical features and management of Acute Otitis Media (AOM)	Y	к кн	3
4	PE 31.1	Describe the etiopathogenesis, management and prevention of Allergic Rhinitis in Children	Y	ККН	4
5	PE 29.1	Discuss the etiopathogenesis, clinical features, classification	у	ККН	5

		and approach to a child with anemia			
	PE 29.5	Discuss the National Anemia Control Program.	Y	ККН	
6	PE 29.3	Discuss the etiopathogenesis, clinical features and management of Vitamin B-12, Folate deficiency anemia.	Y	ККН	6
7	PE 30.5	Enumerate the Neural tube defects. Discuss the causes, clinical features, types, and management of Neural Tube defect	Y	K KH	7
8	PE 30.13	Discuss the etiopathogenesis, clinical features, management and prevention of Poliomyelitis in children	Y	ККН	8
9	PE 30.6	Discuss the etiopathogenesis, clinical features, and management of Infantile hemiplegia	Y	ККН	9
10	PE 30.16	Discuss the approach to and management of a child with headache	Y	ККН	10

4.2 PRACTICAL

4.2.1 Bedside Clinics

SI No	Comp no PE	Topic/ system	Core	Domain K/S/A Level K/KH,	Bed Side/ DOAP /	Week /hours
I		Genito-Urinary system				
1	PE 21.8	Elicit, document and present a history pertaining to diseases of the Genitourinary tract	Y	S SH	Bed Side	1WK 3 hr (1)
	21.8.1	Elicit clinical history pertaining to genitourinary diseases in children.	Y	S SH		
	21.8.2	Perform a complete physical examination for a child with genitourinary diseases.	Y	S SH		
	21.8.4	Document the complete history in the Logbook.	Y	S SH		
	PE 21.9	Identify external markers for Kidney disease, like Failing to thrive, hypertension, pallor, Icthyosis, anasarca	Y	S SH	Bed Side	
	21.9.1	Identify external markers for Kidney disease, like Failing to thrive, hypertension, pallor, Icthyosis, anasarca.	Y	S SH		
	PE21.1 0	Analyze symptom and interpret the physical findings and arrive at an appropriate provisional differential diagnosis	Y	S SH	Bed Side	
	21.10.1	Analyze symptoms and interpret the physical findings and arrive at an appropriate provisional differential diagnosis.	Y	S SH		

2		Perform and interpret the common				
	PE 21.11	analytes in a Urine examination	Y	S SH	Bedside, Skills lab	3hr (2)
	21.11.1	Perform at least one test to elicit Proteinuria.	Y	S SH	Bedside, Skills lab	
	21.11.2	Interpret the tests for proteinuria and their significance.	Y	S SH		
	21.11.3	Perform test for evaluating Urine PH.	Y	S SH		
	21.11.4	Perform urine microscopy.	Y	S SH		
	21.11.5	Identify the abnormal deposits and Interpret the urine microscopy findings.	Y	S SH		
	21.11.6	Test the urine for glucosuria.	Y	S SH		
	21.11,7	Interpret the urine sugar results.	Y	S SH		
	PE 21.12	Interpret report of Plain X Ray of KUB	Y	S SH	Bedside/ Skills lab	
	21.12.1	Identify any abnormalities on X-Ray KUB.	Y	S SH		
	PE 21.13	Enumerate the indications for and Interpret the written report of Ultra sonogram of KUB	Y	S SH		
	21.13.1	Enumerate indications for Ultrasound KUB.	Y	ККН		
	21.13.2	Interpret the written report of ultrasonogram of KUB.	Y	S SH		
3	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	Y	S SH	Bedside	3hr (3)

	intussusception, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae Recognize common surgical conditions of the abdomen and genitourinary system and			Bedside	
21.14.1	enumerate the indications for referral including acute and subacute intestinal obstruction, appendicitis, pancreatitis, perforation intussusception, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae.	Y	S SH		
PE 21.3.2 & PE 21.2	NEPHROTIC SYNDROME/A GLOMERULONEPHRITIS	Y	ККН		3hr (4)
PE 21.3.2 & PE 21.2	NEPHROTIC SYNDROME/A GLOMERULONEPHRITIS	Y	ККН		3hr (5)
	REVISION/CASE PRESENTATION				3hr (6)
	Gastrointestinal system& Liver				
PE 26.5	Elicit document and present the history related to diseases of Gastrointestinal system	Y	SS	Bedside	2 WK 3hr (7)
	PE 21.3.2 & PE 21.2 PE 21.2 PE 21.2	undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae21.14.1Recognize 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, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae.PENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2PENEPHROTIC SYNDROME/A GLOMERULONEPHRITISPENEPHROTIC SYNDROME/A GLOMERULONEPHRITISPENEPHROTIC SYNDROME/A GLOMERULONEPHRITISPENEPHROTIC SYNDROME/A GLOMERULONEPHRITISPENEPHROTIC SYNDROME/A GLOMERULONEPHRITISPESincintestinal system& LiverPE 26.5Elicit document and present the history related to diseases of Gastrointestinal	undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval SynechiaeRecognize 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, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae.PE 21.3.2 & PE 21.2NEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YPE 21.3.2 & BCOMERULONEPHRITISYPE 21.3.2 	undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval SynechiaeImage: SynechiaeRecognize 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, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval Synechiae.YS SHPENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YK KHPENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YK KHPENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YK KHPENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YK SPENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YS SPESignorize SignorizeImage: Signorize SignorizeImage: Signorize SignorizePENEPHROTIC SYNDROME/A GLOMERULONEPHRITIS & PE 21.2YS SPESignorize SignorizeImage: Signorize SignorizeImage: Signorize SignorizePESignorize SignorizeImage: Signorize SignorizeImage: Signorize SignorizePESignorize SignorizeImage: Signorize SignorizeImage: Signorize SignorizePESignorize SignorizeImage: Signorize SignorizeImage: Signorize SignorizePESignorize SignorizeImage: Signorize SignorizeImage: Signorize SignorizeImage: Sig	undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval SynechiaeBedside21.14.1Recognize 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, Phimosis, undescended testis, Chordee, hypospadias, Torsion testis, hernia Hydrocele, Vulval SynechiaeYS SHPE 21.3.2NEPHROTIC SYNDROME/A GLOMERULONEPHRITISYK KHPE 21.3.2SLOMERULONEPHRITISYRevision/CASE PRESENTATIONImage: Common subacute intestinal system & LiverPE 21.2Image: Common subacute intestinal system & LiverPE 26.5Elicit document and present the history related to diseases of GastrointestinalPE 26.5Elicit document and present the history related to diseases of Gastrointestinal

26.5.1	Elicit the history for diseases of Gastrointestinal system.	Y	SS		
26.5.2	Document the history.	Y	S SH		
26.5.3	Present the history related to Gastrointestinal system.	Y	S SH		
PE 26.7	Perform examination of the abdomen, demonstrate organomegaly, ascites etc.	Y	S SH	Bedside	
26.7.1	Perform an examination of the abdomen in children of different ages.	Y	S SH		
26.7.2	Detect organomegaly on abdominal examination giving details of the affected organ/s.	Y	S SH		
26.7.3	Examine for ascites in children.	Y	S SH		
26.7.4	Examine for other palpable masses in abdomen.	Y	S SH		
PE 26.8	Analyze symptoms and interpret physical signs to make a provisional/ differential diagnosis	Y	S SH	Bedside	
26.8.1	Analyze the symptoms in a child with gastrointestinal disorder.	Y	S SH		
26.8.2	Interpret the physical signs in a child with gastrointestinal disorder.	Y	S SH		
26.8.3	Formulate a provisional and differential diagnosis related to clinical presentation.	Y	S SH		

8						3hr (8)
	PE 26.6	Identify external markers for GI and	Y	SH	Bedside	

		Liver disorders e.g. Jaundice,				
		Pallor, Gynaecomastia, Spider				
		angioma, Palmar erythema,				
		Icthyosis, Caput medusa, Clubbing,				
		Failing to thrive, Vitamin A and D				
		deficiency				
		Interpret Liver Function Tests, viral				
	PE 26.9	markers, Ultra	Y	S SH	Bedside/	
		sonogram report			Skills lab	
	26.9.1	Interpret the given reports of liver function tests.	Y	S SH		
		Interpret the viral markers related				
	26.9.2	to viral hepatitis.	Y	S SH		
		Interpret the given report of				
	26.9.3	abdominal/ liver	Y	S SH		
		Ultrasonography.				
		Counsel and educate patients and				
	PE 26.13	their family	Y	A/C P	Bedside/	
		appropriately on liver diseases			Skills lab	
	26.13.1	Counsel the family on liver disease	Y	A/C SH		
		in the child.				
	0(10.0	Educate the family chart	V			
	26.13.2	Educate the family about	Y	A/C P		
		prevention of liver disease.				
9	PE 26.1	VIRAL HEPATITIS/NEONATAL	Y	S SH	Bedside	3hr (9)
,	PE 26.4	CHOLESTASIS/ PORTAL HT	1		Deusiue	5111 (5)
	1 2 20.1					
		Anemia and other Hemato-				
		oncologic disorders				
10		Elicit, document and present the				3hr
	PE 29.10	history related to	Y	S SH	Bedside	(10)
		Hematology.				
	29.10.1	Elicit the history related to a	Y	S SH		
		hematological disorder.				
	29.10.2	Document the history.	Y	S SH		
	29.10.3	Present the history	Υ	S SH		

	Identify external markers for hematological disorders				
PE 29.1	 e.g. Jaundice, Pallor, Petechiae, Purpura, Ecchymosis, Lymphadenopathy, bone tenderness, loss of weight, Mucosal and large joint bleed. 	Y	S SH	Bedside	
29.11.1	Identify jaundice, pallor, petechial spots, purpura, ecchymosis, lymphadenopathy, bone tenderness, Mucosal and large joint bleed in a patient of hematological disorder.	Y	S SH		
PE 29.1	Analyze symptoms and interpret physical signs to make a provisional /differential diagnosis.	Y	S SH	Bedside	
29.13.1	Analyze symptoms related to hemato-oncological conditions.	Y	S SH		
29.13.2	interpret physical signs to make a provisional diagnosis	Y	S SH		
29.13.3	Produce differential diagnosis keeping in mind the symptoms and signs related to haemato- oncological conditions.	Y	S SH		
1		Y	S SH	Bedside	3hr (11)
PE 29.4 PE 29.2 PE 29.3	ANEMIA/HEMOLYTIC ANEMIA				

					Bedside	
	PE 29.14	Interpret CBC, LFT	Y	S SH	/Skill	
	FL 29.14		I	3 311	Lab	
	29.14.1	interpret Complete Plead Count	Y	S SH		
	29.14.1	interpret Complete Blood Count	I	3 31	_	
	29.14.2	Report	Y	S SH	session	
	29.14.2	Interpret Liver Function Tests	ľ	2 2 1		
		Report.				
	PE 29.15	Perform and Interpret peripheral	Y	S SH	DOAP	
	FL 29.1J		I	3 311	session	
		smear.			56551011	
	29.15.1	Prepare a peripheral blood film.	Y	S SH		
	29.15.2	Interpret the peripheral blood film.	Y	S SH		
	29.15.3	Make diagnosis of peripheral blood film.	Y	S SH		
	PE 29.16	Discuss the indications for	Ν	KK	Bedside/	
		Hemoglobin electrophoresis			skill lab	
		and interpret the report.				
	29.16.1	Enumerate the indications for	Ν	KK		
		Hemoglobin electrophoresis				
	29.16.2	interpret the report of Hemoglobin	Ν	KK		
		electrophoresis				
11/		Control Norvous system				
IV 10		Central Nervous system				01
13		Elicit, document and present an	V	0.011	Dedetde	3hr
	PE 30.17	age appropriate	Y	S SH	Bedside	(12)
		history pertaining to the CNS				
	30.17.1	Elicit age appropriate detailed	Y	S SH		
		history pertaining to CNS				
		Write down age				
	30.17.2	appropriate history	Y	S SH		
		including history				
		pertaining to CNS under				
		appropriate headings	ļ			
		Present the documented age				
	30.17.3	appropriate history pertaining to	Y	S SH		

		CNS				
		Demonstrate the correct method for physical				
	PE 30.18	examination of CNS including identification of external markers. Document and present clinical findings	Y	S SH	Bedside	
	30.18.1	Measure head circumference accurately.	Y	S SH		
	30.18.2	Recognize neurocutaneous markers.	Y	S SH		
	30.18.3	Do a complete CNS examination in children of different ages.	Y	S SH		
	30.18.4	Recognize involuntary movements.	Y	S SH		
	30.18.5	Examine for signs of meningeal irritation.	Y	S SH		
	30.18.6	Document and present clinical findings.	Y	S SH		
14	PE 30.11	CEREBRAL PALSY	Y	S SH	Bedside	3 WK
	PE 30.1 PE 30.6	/HEMIPLEGIA/POST CNS INFECTION SEQUALE				3hr (13)
15	PE 30.19	Analyse symptoms and interpret physical findings and propose a provisional / differential diagnosis	s	SH	Bedside	3 WK 3hr (14)
	30.19.1	Analyse symptoms and propose a provisional / differential diagnosis	S	SH		
	30.19.2	Interpret physical findings and propose a provisional / differential diagnosis	S	SH		
	30.19.3	Combine analysis of symptoms and	S	SH		

		interpretation of physical				
		findings to propose a				
		provisional / differential				
		diagnosis				
	PE 30.20	Interpret and explain the findings	Y	S SH	Bedside/	
		in a CSF analysis			skill lab	
		Perform in a mannequin				
	PE 30.23	lumbar puncture. Discuss the	Y	S SH	Bedside	
		indications, contraindication			/Skill lab	
		of the procedure				
		Enumerate the indication and				
	PE 30.21	discuss the	N	KK	Bedside/	
		limitations of EEG, CT, MRI			skill lab	
16	PE 30.4	MICROCEPHALY/HYDROCEPHALY	Y	S SH	Bedside	3 WK
10	PE 30.4 PE 30.3	/TBM/CNS CASE	Ŷ	3 30	Deusiue	3 WK 3hr
	PE 30.3 PE 30.2	/ TBM/ CNS CASE				(15)
	FL JU.Z					(13)
V		Endocrinology				
17	PE 33.2	SHORT	Y	S SH	Bedside	3 WK
	PE 2.2	STATURE/HUPOTHYRODISM/RICK				3hr
	PE12.4	ETS/DWARF				(16)
		Recognize the clinical signs of				
	PE 33.2	Hypothyroidism and	Y	S SH	Bedside	
		refer				
		Interpret and explain neonatal				
	PE 33.3	thyroid screening	Y	S SH	Bedside/	
		report			Skilllab	
18		Perform genital examination and				3 WK
10	PE 33.7	recognize Ambiguous	Y	S SH	Bedside	3 WK 3hr
	T L 33.7	Genitalia and refer appropriately	1	0.011	Deusiue	(17)
						('')
		Deuferme Coursel Maturity Dating	Y	S SH	Bedside	
	PE 33.9	Perform Sexual Maturity Rating	I	0.011	DEUSIUE	
	PE 33.9	Perform Sexual Maturity Rating (SMR) and interpret	ľ	5 511	Deusiue	

	33.9.1	maintaining full dignity of the adolescent patient and interpret it correctly	Y	K/S SH		
	PE 33.10	Recognize precocious and delayed Puberty and refer	Y	S SH	Bedside	
	33.10.1	Recognize features of precocious and delayed puberty in a child	Y	S SH		
	33.10.2	Counsel the parents for need to refer the child to higher center after diagnosing precocious or delayed Puberty	SY	S/C SH		
19		REVISION/CASE PRESENTATION	Y	S SH	Bedside	3 WK 3hr (18)
20	PE 33.5	Interpret Blood sugar reports and explain the diagnostic criteria for Type 1 Diabetes	Y	S SH	Bedside/ SKILLLA B	4 WK 3hr (19)
	33.5.1	Identify Type 1 Diabetes from a given blood report as per latest diagnostic criteria of DM (American Diabetes Association, 2016)	Y	K/S SH		
	PE 33.6	Perform and interpret Urine Dip Stick for Sugar	Y	SP	Bedside/ SKILLLA B	
	33.6.1	Perform urine dipstick test for sugar and interpret it correctly	Y	SP		
21	PE 20.3 PE 20.4	NEWBORN CASE PRESENTATION	Y	S SH	Bedside	3hr (20)

22	PE 2.2 P E 10.3&5	PEM/SAM/NAM CASE PRESENTATION	Y	S SH	Bedside	3hr (21)
23	PE3.3 PE3.8 PE 23.7 PE 23.10	CASE PRESENTATION- CVS/CNS- CP/HEPATOSPLENOMEGALY/THA LASSEMIA	Y	S SH	Bedside	3hr (22)
24	PE 20.4 PE 24.9	CASE PRESENTATION- NEWBORN/PAEDIATRICS	Y	S SH	Bedside	3hr (23)
25		END TERM/PRELIMS EXAMS				3hr (24)

4.2.2 Clinical Clerkship / Evening Clinics

Clinical Clerkship / Evening Clinics					
Day	Торіс	Suggested TL Method	No. of Hours		
OPD	Examination of Cases in OPD		1 hour		
Post OPD	Writing Case Papers, Investigations		1 hour		
OT	Not Applilcable				
Post OT	Not Applicable				
Ward Rounds	Follow ups, Discharge Papers		1 hour		

4.2.3 Skill Lab

4.2.4

	Skill Lab							
SI. No	Comp No	Topic: Competency (Number & Details)	No. of Hours					
1	PE 20.3	Neonatal Resuscitation	2 hours					
2	PE 15.6	Setting up Paediatric Infusion and calculating drip rate	2 hours					
3	PE 15.7	Setting up paediatric IV line	2hours					

4.2.4 Certifiable Skills

		Certifiable	Skills		
S.NO	Number	Competency Details	Number required to Certify P	Date completed	Reference Page no.
1	PE 1.4	Perform anthropometric measurements, document in growth charts and interpret	3		
2	PE 1.7	Perform developmental assessment and Interpret	3		
3	PE 7.5	Observe the correct technique of breast feeding and distinguish right from wrong techniques	3		
4	PE 11.5	Calculate BMI, document in BMI chart and Interpret	3		
5	PE 19.6	Assess patient for fitness for immunization and prescribe an age- appropriate immunization schedule	5		

6 PE Perform NG tube insertion in 2 7 PE Perform IV canulation in a 2 24.16 model 2 8 PE Perform interosseous 2 24.17 insertion model 3 9 PE Assess airway and breathing: of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting 3 10 PE Assess airway and breathing. Demonstrate the method of positioning of an infant & child to open airway in a simulated environment 3 11 PE Assess airway and breathing: coxygen using correct technique and appropriate flow rate 3 12 PE Assess airway and breathing: coxygen using of sock i.e. zor.18 3 13 PE Check for signs of shock i.e. zor.19 3 14 PE Secure an IV access in a zor.20 3 14 PE Choose the type of fluid and zor.21 3 15 PE Choose the type of fluid and zor.21 3 16 PE Assess level of zor.22 3				
7 PE Perform IV cannulation in a model 2 8 PE Perform interosseous 2 2 24.17 insertion model 3 9 PE Assess airway and breathing: recognize signs of severe respiratory distress. Check for cyanosis, severe chest indrawing, grunting 3 10 PE Assess airway and breathing: a method of positioning of an infant & child to open airway in a simulated environment 3 11 PE Assess airway and breathing: a method of positioning of an infant & child to open airway in a simulated environment 3 11 PE Assess airway and breathing: a method of positioning of an infant & child to open airway in a simulated environment 3 11 PE Assess airway and breathing: a method of positioning of an infant & child to open airway in a simulated environment 3 12 PE Assess airway and breathing: a method of positioning of an infant & child to open airway in a simulated environment 3 13 PE Check for signs of shock i.e. a group optiate flow rate 3 13 PE Check for signs of shock i.e. a group optiate grou	6			2
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27.19pulse, blood pressure, CRT14PESecure an IV access in a simulated environment315PEChoose the type of fluid and calculate the fluid requirement in shock316PEAssess level of consciousness & provide3			in a simulated environment	
Image:	13		_	3
14PESecure an IV access in a simulated environment315PEChoose the type of fluid and calculate the fluid requirement in shock316PEAssess level of consciousness & provide3		27.19		
27.20simulated environment			•	
Image: series of the series	14			3
15PE 27.21Choose the type of fluid and calculate the fluid requirement in shock316PE 27.22Assess level of consciousness & provide3		27.20		
27.21 calculate the fluid requirement in shock 16 PE 27.22 consciousness & provide			environment	
requirement in shock 16 PE 27.22 consciousness & provide	15			3
16 PE Assess level of 3 27.22 consciousness & provide 3		27.21		
27.22 consciousness & provide				
	16		Assess level of	3
emergency		27.22	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		
47		environment		
17	PE 27.23	Assess for signs of severe dehydration	3	
18	PE 27.28	Provide BLS for children in manikin	3	
19	PE 33.6	Perform and interpret urine dip stick for sugar	3	
20	PE 33.11	Identify deviations in growth and plan appropriate referral	2	
21	PE 34.6	Identify a BCG scar	3	
22	PE 34.7	Interpret a Mantoux test	3	
23	PE 34.11	Perform AFB staining	3	

a. AETCOM Module

	AETCOM Module							
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours					
1	PE 4.7 Case studies in ethics and patient autonomy Consent and Guardianship in pediatric patients	As Per schedule	5 hours					

b. Pandemic Module

	Pandemic Module					
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours			
1	NOT Applicable					

3 SCHEME OF EXAMINATION

5.1 Eligibility Criteria

- Students must secure at least 50% 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 Summative / University examination.
- Student should have a minimum of 75% attendance in Theory and 80% in Practical classes to be eligible to appear for Summative / University examination.
- Student must have completed the required certifiable competencies and completed the log book

5.2 Internal Assessment

5.2.1 Theory

- Multiple (a minimum of two) Internal Assessments (IA) will be conducted.
- The last IA will be conducted as Preliminary examination, which will mirror the university exams in marks and pattern.
- The final IA marks will be derived based on the table given below.
- The blueprint of all the IAs is also given in the table below.

	DEPARTMENT OF PAEDIATRICS Integrated phase-wise Internal Assessment						
THEORY		Phase 3-1		Pł	Final Total		
			IA-2	IA-3	IA-4		
Written	Theory [#]	30	25	50	75		
	MCQ	10	10	10	20		
	AETCOM*		05		05		
	Formative	05			10		
	assessment:		05				
	SDL/Class tests/			10			
FA	MCQs/ Tutorials/		00		10		
	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						

Table 1: Theory Internal Assessment

Table 2: Blueprint of IA (Theory)

BLUEPRINT	Number of questions					
THEORY IA	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						

6.2.2. Practical

- Each clinical posting will include and End of Posting (EoP) test.
- The marks allotted for each EoP is tabulated below.
- The preliminary examination will include a practical examination which will mirror the university examination in marks and pattern.

	DEPARTMENT OF PAEDIATRICS							
	Integrated phase-wise Internal Assessment							
		Phase 2 Phase 3-		Phase 3-2	Final			
	PRACTICAL	2 weeks	4 weeks	4 weeks	Final Total			
		EOP-1	EOP-2	EOP-3				
EOP	Clinical skills assessment (OSCE/ Mini-CEX/ Case presentation/ AETCOM)	40	40	50				
	Viva-voce (may include AETCOM)	10	10	10				
Others	Formative assessment including Clinical- Clerkship	05	05	10				
	Logbook/ Record book	05	05	10				
	Total	60	60	80	200			

FINAL EOP 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 Practical Examinations will be conducted for 100 marks & will mirror Summative / University Practical Examinations Final practical IA marks (100) = Final EOP marks (100) + Preliminary Exam (100) 2

6.2.3. Formative (Day to Day) Assessment

- Day to Day assessment will be performed and it will be added to the iA marks of theory as well as practical (as in tables above)
- Formative (Day to Day) assessment will be calculated based on attendance, maintenance of record books, log books, journals, case sheets etc
- Any assignments, presentations, seminars or other academic activity of note shall also reflect in the formative assessment

6.2.4. Remedial Assessment

 Remedial Examinations will be conducted as per the policy of Shri Dharamasthala Manjunatheshwara University and will be based on NMC guidelines.

5.3 Summative Assessment

5.3.1 Pass Criteria

- A candidate shall obtain 50% marks in university conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject.
- In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

5.3.2 Theory Summative Examination Format

 Third Professional Part II - (Final Professional) examination shall be at the end of training (14 months including 2 months of electives) in the subjects of General Medicine, General Surgery, Obstetrics & Gynecology and Pediatrics.

- The disciplines of Orthopedics, Anesthesiology, Dentistry and Radiodiagnosis will constitute 25% of the total theory marks incorporated as a separate section in paper II of General Surgery.
- The disciplines of Psychiatry and Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis will constitute 25% of the total theory marks in General Medicine incorporated as a separate section in paper II of General Medicine.

5.3.3 Blueprint of Theory Summative Examination

Blueprint of Theory Summative Examination	Only one theory paper			
Multiple Choice Questions (MCQ) (1 mark each)	20			
Structured Long Essay Questions (SLEQ) (10 marks each)	02			
Short Essay Questions (SEQ) (5 marks each)	08			
Short Answer Questions (SAQ) (2 marks each)	10			
TOTAL	100			
AETCOM should have a weightage of 5 marks				

Table 4: Blueprint of theory summative examination

 Table 5: Blueprint (Topic based) of theory summative examination

Blueprint of Theory Summative Examination (Topic based weightage)						
					Total Marks	
1.Introduction to Paediatrics	3					
2.Normal Growth and its 7 Disorders 7						

23. Inborn Errors of Metabolism	1			
24. Eye Disorders	1			
25. Skin Disorders	2			
26. Poisonings, Injuries and Accidents	4			
27. Pediatric Critical Care	3			
28. Integrated Management of Neonatal and Childhood Illness	3			
29. AETCOM (5 marks per paper)	2			
Total	100			

5.3.4 Practical Summative Examination Format

Practical Sum	native Examination Format	Number of cases	Marks allotted for each case	Total (Marks)
	Long cases (Paediatric Case)	1	40	40
Clinical Cases	Short cases (Newborn)	1	40	40
	Case scenarios			
	Ward Cases			
	Spotters			
Viva-voce (Nutrition, Drugs, Instruments & X-Rays)		4 Stations	5	20
	Others			
	TOTAL			100

6 INTEGRATION (HORIZONTAL & VERTICAL)

		INTEGRATIO	DN			
SI.	СОМР	Competency Detail	Nesting / Sharing / Aligning /	Integration with departments		
no	NO	Competency Detail	Correlation	Horizontal	Vertical	
		Anatomy				
1.	AN25.4	Describe embryological basis of: 1) atrial septal defect, 2)ventricular septal defect, 3)Fallot's tetralogy & 4) tracheo- oesophageal fistula		Physiology	General Medicine, Pediatrics	
2.	AN25.5	Describe developmental basis of congenital anomalies, transposition of great vessels, dextrocardia, patent ductus arteriosus and coarctation of aorta		Physiology	General Medicine, Pediatrics	
3.	AN25.9	Demonstrate surface marking of lines of pleural reflection, Lung borders and fissures, Trachea, Heart borders, Apex beat & surface projection of valves of heart		Physiology	General Medicine, Pediatrics	
4.	AN63.2	Describe anatomical basis of congenital hydrocephalus		Physiology	Pediatrics	
5.	AN64.3	Describe various types of open neural tube defects with its embryological basis			Obstetrics & Gynaecology, Pediatrics	
6.	AN74.1	Describe the various modes of inheritance with examples			General Medicine, Pediatrics	
7	AN74.2	Draw pedigree charts for the various types of inheritance & give examples of diseases of each mode of inheritance			General Medicine, Pediatrics	

8	AN74.4	Describe the genetic basis &	General
	,,	clinical features of	Medicine,
		Achondroplasia,	Pediatrics
		Cystic Fibrosis, Vitamin D	
		resistant rickets, Hemophilia,	
		Duchene's muscular dystrophy	
		& Sickle cell anaemia	
9	AN75.1	Describe the structural and	Pediatrics
		numerical chromosomal	
		aberrations	
10	AN75.2	Explain the terms mosaics and	Pediatrics
		chimeras with example	
11	AN75.3	Describe the genetic basis &	Pediatrics
		clinical features of Prader Willi	
		syndrome, Edward syndrome &	
		Patau syndrome	
12	AN75.4	Describe genetic basis of	Pediatrics
		variation; polymorphism and	
		mutation	
13	AN75.5	Describe the principles of	Pediatrics,
		genetic counselling	Obstetrics
			&
			Gynaecology
	ſ	Physiology	
1	PY11.6	Describe physiology of Infancy	Pediatrics
2	PY11.9	Interpret growth charts	Pediatrics
3	PY11.1	Interpret anthropometric	Pediatrics
	0	assessment of infants	
Bioc	hemistry		
1	BI5.3	Describe the digestion and	Pediatrics
		absorption of dietary proteins	
2	BI5.4	Describe common disorders	Pediatrics
		associated with protein	
		metabolism	
3	BI7.3	Describe gene mutations and	Pediatrics
		basic mechanism of regulation of	
		gene expression	
4	BI7.4	Describe applications of	Pediatrics,

		recombinant DNA technology,	General
		PCR in the	Medicine
		diagnosis and treatment of	
		diseases with genetic basis	
5	BI8.1	Discuss the importance of	General
-		various dietary components and	Medicine,
		explain	Pediatrics,
		importance of dietary fibre	Pathology
6	BI8.2	Describe the types and causes of	General
		protein energy malnutrition and	Medicine,
		its	Pediatrics,
		effects	Pathology
7	BI8.5	Summarize the nutritional	Community
		importance of commonly used	Medicine,
		items of	General
		food including fruits and	Medicine,
		vegetables. (macro-	Pediatrics
		molecules & its	
		importance)	
8	BI10.5	Describe antigens and concepts	Pathology,
		involved in vaccine development	Pediatrics,
			Microbiology
		Pathology	
1	PA12.2	Describe the pathogenesis of	Biochemistry,
		disorders caused by protein	Pediatrics
		calorie	
		malnutrition and starvation	
2	PA21.2	Classify and describe the	Pediatrics
		etiology, pathogenesis and	
		pathology of	
		vascular and platelet disorders	
		including ITP and hemophilias	
3	PA28.1	Define, classify and describe the	General
	2	genetics, inheritance etiology,	Medicine,
		pathogenesis, pathology,	Pediatrics
		laboratory, urinary findings,	
		distinguishing features,	
		progression and complications	

		of cystic disease of the kidney			
4	PA28.1				Pediatrics
4	4	Classify and describe the			Pediatrics
	4	etiology, genetics, pathogenesis,			
		pathology, presenting			
		features, progression and			
5	PA31.4	spread of renal tumors Enumerate and describe the			Dadiatriaa
5	PA31.4				Pediatrics, General
		etiology, hormonal dependency			
		and			Medicine
6	PA35.2	pathogenesis of gynecomastia			Dadiatriaa
6	PA35.2	Classify and describe the			Pediatrics
		etiology, genetics, pathogenesis,			
		pathology, presentation sequelae			
		and complications of CNS			
		tumors			
1	MI1.8	Microbiolog Describe the mechanisms of	у	Dathalagu	Dedictrice
1	WI1.8			Pathology	Pediatrics
		immunity and response of the host			
2	MI1.9	immune system to infections Discuss the immunological basis			Paediatrics
2	10111.9	of vaccines and describe the			Faculatiles
		Universal Immunisation schedule			
3	MI1.10	Describe the immunological			Paediatrics
5		mechanisms in immunological			Faculatiles
		disorder			
		(hypersensitivity,			
		autoimmune disorders and			
		immunodeficiency states)			
		and discuss the laboratory			
		methods used in detection			
4	MI3.1	Enumerate the microbial agents		Pathology	General
		causing diarrhea and dysentery.			Medicine,
		Describe the epidemiology,			Paediatrics
		morphology, pathogenesis,			
		clinical features, and			
1		· · · · · · · · , •···•			
		diagnostic modalities of			

г					Comonal
5	MI3.2	Identify the common etiologic			General
		agents of diarrhea and dysentery			Medicine,
					Paediatrics
6	MI5.1	Describe the etiopathogenesis,		Pathology	General
		clinical course and discuss the			Medicine,
		laboratory diagnosis of			Paediatrics
		meningitis			
7	MI5.2	Describe the etiopathogenesis,		Pathology	General
		clinical course and discuss the			Medicine,
		laboratory diagnosis of			Paediatrics
		encephalitis			
8	MI5.3	Identify the microbial agents			General
		causing meningitis			Medicine,
					Paediatrics
	•	Pharmacolo	gy		
1	PH1.12	Calculate the dosage of drugs			Pediatrics,
		using appropriate formulae for an			General
		individual patient, including			Medicine
		children, elderly and patient			
		with renal dysfunction			
2	PH1.43	Describe and discuss the rational		Microbiolo	General
		use of antimicrobials including		gy	Medicine
		antibiotic stewardship program			Pediatrics
3	PH1.56	Describe basic aspects of			Pediatrics
		Geriatric and Pediatric			
		pharmacology			
4	PH2.4	Demonstrate the correct			Pharmacolog
		method of calculation of drug			y, General
		dosage in patients including			Medicine
		those used in special			
		situations			
		Community Medic	cine		
					Microbiology,
1	CM3.3	Describe the aetiology and basis			wiicrobiology,
1	CM3.3	Describe the aetiology and basis of water borne diseases			General
1	CM3.3	5,			
1	CM3.3	of water borne diseases			General
1	CM3.3 CM5.1	of water borne diseases /jaundice/hepatitis/ diarrheal			General Medicine,

		nutritional requirements	Pediatrics
		according to age, sex, activity,	
		physiological conditions	
3	CM5.2	Describe and demonstrate the	General
		correct method of performing	Medicine,
		a nutritional assessment of	Pediatrics
		individuals, families and the	
		community by using the	
		appropriate method	
4	CM5.3	Define and describe common	General
		nutrition related health	Medicine,
		disorders (including macro-	Pediatrics
		PEM, Micro-iron, Zn, iodine, Vit.	
		A), their control and	
		management.	
5	CM5.4	Plan and recommend a suitable	General
		diet for the individuals and	Medicine,
		families based on local	Pediatrics
		availability of foods and	
		economic status, etc in a	
		simulated environment	
6	CM5.5	Describe the methods of	General
		nutritional surveillance,	Medicine,
		principles of	Pediatrics
		nutritional education and	
		rehabilitation in the context	
		of socio- cultural factors	
7	CM5.6	Enumerate and discuss the	Pediatrics
		National Nutrition Policy,	
		important	
		national nutritional Programs	
		including the Integrated Child	
		Development Services Scheme	
		(ICDS) etc	
8	CM5.8	Describe and discuss the	Pediatrics
		importance and methods of food	
		fortification and effects of	
		additives and adulteration	

0	OM6 1	Formulate a research sussition		Concrol
9	CM6.1	Formulate a research question		General
		for a study		Medicine,
				Pediatrics
10	CM6.2	Describe and discuss the		General
		principles and demonstrate		Medicine,
		the methods of collection,		Pediatrics
		classification, analysis,		
		interpretation and		
		presentation of statistical		
		data		
11	CM6.3	Describe, discuss and		General
		demonstrate the application of		Medicine,
		elementary statistical methods		Pediatrics
		including test of significance in		i culatiles
		various study designs		
12	CM6.4	Enumerate, discuss and		General
12	0101.4	demonstrate common		Medicine,
				Pediatrics
		sampling techniques, simple statistical methods,		Pediatrics
		,		
		frequency distribution,		
		measures of central		
		tendency and dispersion		
13	CM8.1	Describe and discuss the	Microbiolo	General
		epidemiological and control	gy,	Medicine,
		measures	Pathology	Pediatrics
		including the use of essential		
		laboratory tests at the primary		
		care level for communicable		
		diseases		
14	CM8.3	Enumerate and describe disease		General
		specific National Health		Medicine,
		Programs		Pediatrics
		including their prevention and		
		treatment of a case		
15	CM8.4	Describe the principles and		General
-		enumerate the measures to		Medicine,
		control a		Pediatrics
		disease epidemic		
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14			1	
16	CM8.5	Describe and discuss the		General
		principles of planning,		Medicine,
		implementing and		Pediatrics
		evaluating control measures for		
		disease at community level		
		bearing in mind the public health		
		importance of the disease		
17	CM9.2	Define, calculate and		Obstetrics &
		interpret demographic		Gynaecology,
		indices including birth rate,		Pediatrics
10		death rate, fertility rates		
18	CM10.1	Describe the current status of		Obstetrics &
		Reproductive, maternal, newborn		Gynaecology,
		and Child		Pediatrics
		Health		
19	CM10.2	Enumerate and describe the		Obstetrics &
		methods of screening high		Gynaecology,
		risk groups and common		Pediatrics
00	0110.0	health problems		Obstatuit 0
20	CM10.3	Describe local customs and		Obstetrics &
		practices during pregnancy,		Gynaecology,
		childbirth, lactation and child		Pediatrics
21	CM10.4	feeding practices		Obstetrics &
21	GIVI I U.4	Describe the reproductive, maternal, newborn & child health		
				Gyna ecolo
		(RMCH); child survival and safe motherhood interventions		
				gy, Pedia
				redia trics
22	CM10.5	Describe Universal Immunization		Pediatrics
~~	GIVE 10.3	Program; Integrated Management		
		of Neonatal and Childhood		
		Illness (IMNCI) and other existing		
		Programs		
		Forensic Medicine &		<u> </u>
1	FM1.9	Describe the importance of		Radiodiagnos
	1 1011.7	documentation in medical		is,
		practice in		General
				Juliu

		regard to medicolegal	Surgery,
		examinations, Medical	General
		Certificates and medicolegal	Medicine,
		reports especially	Paediatrics
		– maintenance of patient	
		case records, discharge	
		summary, prescribed	
		registers to be	
		maintained in Health	
		Centres.	
		maintenance of medico-legal	
		register like accident register.	
		documents of issuance of	
		wound certificate	
		documents of issuance of	
		drunkenness certificate.	
		documents of issuance of	
		sickness and fitness certificate.	
		documents for issuance of	
		death certificate.	
		documents of Medical	
		Certification of Cause of Death -	
		Form	
		Number 4 and 4A	
		documents for	
		estimation of age by	
		physical, dental and	
		radiological	
		examination and	
		issuance of	
		certificate	
2	FM2.27	Define and discuss infanticide,	Pediatrics
		foeticide and stillbirth	
3	FM2.28	Describe and discuss signs of	Pediatrics,
		intrauterine death, signs of live	Human
		birth,	Anatomy
		viability of foetus, age	
		determination of foetus, DOAP	

		session of ossification centres,			
		Hydrostatic test, Sudden			
		infants death syndrome and			
		Munchausen's syndrome by proxy			
4	FM3.29	Describe and discuss child abuse			Pediatrics
-	1 1010.20	and battered baby syndrome			i culatiles
		Dermatology, Venereolo	ogy & Lenros	V	
1	DR5.1	Describe the etiology,		Pharmacol	Pediatrics
•	511011	microbiology, pathogenesis,		ogy	i cululioc
		natural history,		U	
		clinical features, presentations			
		and complications of scabies			
2	DR5.2	Identify and differentiate scabies		Microbiolo	Pediatrics
		from other lesions		gy	
3	DR5.3	Enumerate and describe the			Pediatrics
		pharmacology, administration			
		and			
		adverse reaction of			
		pharmacotherapies for scabies			
4	DR6.1	Describe the etiology,		Microbiolo	Pediatrics
		pathogenesis and diagnostic		gy	
		features of			
		pediculosis			
5	DR6.2	Identify and differentiate		Microbiolo	Pediatrics
		pediculosis from other skin		gy	
		lesions			
6	DR7.1	Describe the etiology,			Pediatrics
		microbiology, pathogenesis,			
		clinical			
		presentations and diagnostic			
		features of dermatophytes			
7	DR8.1	Describe the etiology,			Pediatrics
		microbiology, pathogenesis,			
		clinical			
		presentations and diagnostic			
		features of common viral			
-		infections of the skin			
8	DR17.1	Enumerate and identify the			General

		outonoque findingo in vitemin A	Madiaina
		cutaneous findings in vitamin A	Medicine,
		deficiency	Pediatrics,
			Biochemistry
9	DR17.2	Enumerate and describe the	General
		various skin changes in Vitamin	Medicine,
		B	Pediatrics,
		complex deficiency	Biochemistry
10	DR17.3	Enumerate and describe the	General
		various changes in Vitamin C	Medicine,
		deficiency	Pediatrics,
			Biochemistry
11	DR17.4	Enumerate and describe the	General
		various changes in Zinc	Medicine,
		deficiency	Pediatrics,
			Biochemistry
		Anesthesiology	
1	AS2.1	Enumerate the indications,	General
		describe the steps and	Medicine,
		demonstrate in a	Pediatrics
		simulated environment	
		basic life support in adults	
		children and neonates	
Psy	chiatry		
1	PS14.1	Enumerate and describe the	Pediatrics
		magnitude and etiology of	
		psychiatric	
		disorders occurring in childhood	
		and adolescence	
2	PS14.2	Enumerate, elicit, describe and	Pediatrics
		document clinical features in	
		patients with psychiatric	
		disorders occurring in	
		childhood and	
		adolescence	
3	PS14.3	Describe the treatment of stress	Pediatrics
		related disorders including	
		behavioural, psychosocial and	
		pharmacologic therapy	

4	D0144	Demonstrate femily advection in			Dedictrice
4	PS14.4	Demonstrate family education in			Pediatrics
		a patient with psychiatric			
		disorders			
		occurring in childhood and			
		adolescence in a simulated			
		environment			
5	PS14.5	Enumerate and describe the			Pediatrics
		pharmacologic basis and side			
		effects			
		of drugs used in psychiatric			
		disorders occurring in			
		childhood and adolescence			
6	PS15.1	Describe the aetiology and			Pediatrics
		magnitude of mental retardation			
7	PS15.2	Describe and discuss			Pediatrics
		intelligence quotient and its			
		measurement			
8	PS15.3	Elicit and document a history and			Pediatrics
		clinical examination and choose			
		appropriate investigations in a			
		patient with mental retardation			
9	PS15.4	Describe the psychosocial			Pediatrics
		interventions and treatment used			
		in			
		mental retardation			
		General Medic	cine		
1	IM23.1	Discuss and describe the		Pediatrics	Physiology,
		methods of nutritional			Biochemistry
		assessment in an			
		adult and calculation of caloric			
		requirements during illnesses			
2	IM23.2	Discuss and describe the causes		Pediatrics	Physiology,
		and consequences of protein			Biochemistry
		caloric malnutrition in the			
		hospital			
3	IM23.3	Discuss and describe the		Pediatrics	Physiology,
		aetiology, causes, clinical			Biochemistry
		manifestations,			
	1	•			I

		complications diagnosis			
		complications, diagnosis			
		and management of			
		common vitamin			
		deficiencies			
4	IM23.4	Enumerate the indications for		Pediatrics	Physiology,
		enteral and parenteral nutrition in			Biochemistry
		critically ill patients			
		Obstetrics & Gyne	ocology		1
1	0G1.2	Define and discuss perinatal		Pediatrics	Community
		mortality and morbidity including			Medicine
		perinatal and neonatal mortality			
		and morbidity audit			
2	0G18.1	Describe and discuss the		Pediatrics	
		assessment of maturity of the			
		newborn,			
		diagnosis of birth asphyxia,			
		principles of resuscitation,			
		common problems			
3	0G18.2	Demonstrate the steps of		Pediatrics	
		neonatal resuscitation in a			
		simulated			
		environment			
4	OG18.3	Describe and discuss the		Pediatrics	
		diagnosis of birth asphyxia			
	OG18.4	Describe the principles of		Pediatrics	
		resuscitation of the newborn and			
		enumerate the common			
		problems encountered			
		Physical Medicine & R	ehabilitatior	n	
	PM3.1	Describe and discuss the clinical		Pediatrics	Human
		features, types, evaluation,			Anatomy
		diagnosis and management of			
		cerebral palsy			
	PM3.2	Recognize, describe and discuss		Pediatrics	
		the spectrum of multiple			
		disability :			
		cognitive, motor, visual and			
		hearing in cerebral palsy			

	_			[]
PM3.3	Recognize, describe and discuss	Pe	diatrics	
	the role of special education in			
	children with learning disabilities			
PM3.4	Demonstrate spasticity, rigidity	Pe	diatrics	
	and dystonia in children with			
	cerebral palsy			
PM3.5	Enumerate the indications and	Pe	diatrics,	Pharmacolog
	describe the therapies for	Ort	hopedi	у
	spasticity	cs	-	
	including medications, serial			
	casts, nerve blocks, botulinum			
	toxin injections			
PM3.6	Enumerate the indications and	Pe	diatrics	
	describe prevention of joint			
	subluxations and			
	contractures by proper			
	positioning, and use of			
	special chairs, and			
	appliances			
PM3.7	Enumerate the first aid measures	Pe	diatrics	
	to be used in patients with			
	seizures			
PM4.2	Describe and discuss the	Pe	diatrics	
	principles of management of			
	chronic pain			
	and role of common modalities			
	(moist heat, ultrasound, Short			
	wave diathermy)			

7 RECOMMENDED BOOKS

7.1 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.

7.2 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.

7.3 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

ORTHOPEDICS

14. <u>GOAL</u>

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.

15. OBJECTIVES

a. Knowledge & 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.

b. Attitude & 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. Motivate patients with chronic diseases to adhere to the line of management as outlined by the health care provider.
- iii. Follow the treatment guidelines and counsel the patient to adhere and comply.
- iv. Respect patient's privacy.
- v. Maintain confidentiality.
- vi. Work in a healthcare team efficiently while respecting all its members.
- vii. Continuously strive for updating his/her own knowledge and skill.
- viii. To treat prolonged illnesses with regular follow-up, monitoring, proper counseling and refer to higher centers if required.

c. 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.

16. TEACHING HOURS

THEORY	Teaching-Learning Method	No. of Hours
A	Large Group Teaching (LGT)	20
В	Small Group Teaching (SGT)	25
С	Self Directed Learning (SDL)	5
	Total	50

PRACTICAL	PRACTICAL Teaching-Learning Method	
Α	Bedside Clinics	2
	Total	2

OTHERS	Teaching-Learning Method	No. of Hours
А	AETCOM	
В	Pandemic Module	
С	Skill Lab	
	Total	

17. <u>COURSE CONTENT</u> a. Theory

a.	Theory	i Jarra Oraun Tasahing (JOT)				
		i. Large Group Teaching (LGT) Large Group Teaching (LGT)				
	Theory Classes					
SI. No		Topic: Competency (Number & Details)	No. of Hours			
1	OR 5.1	Rheumatoid arthritis	1 hour			
2	OR 5.1	Ankylosing spondylitis & SSRA	1 hour			
3	OR 6.1	Cervical and Lumbar Spondylosis	1 hour			
4	OR 6.1	IVDP and Lumbar Canal stenosis	2 hour			
5	OR 7.1	Calcium metabolism and Osteoporosis	1 hour			
6	OR 7.1	Vit D metabolism and Rickets	1 hour			
7	OR 7.1	Osteoporosis, Osteomalacia	1 hour			
8	OR 8.1	PPRP	1 hour			
9	OR 9.1	Cerebral Palsy	1 hour			
10	OR 10.1	General Principles of Bone tumours	1 hour			
11	OR 10.1	Benign bone tumours	1 hour			
12	OR 101.1	Malignant Bone tumours	1 hour			
13	OR 11.1	Peripheral nerve injuries (General) and Foot drop	1 hour			
14	OR 11.1	Radial, Median, Ulnar nerve injuries	2 hour			
15	OR 11.1	Claw Hand, Entrapment neuropathies	1 hour			
16	OR 12.1	Scoliosis & Neural tube defects	1 hour			
17	OR 12.1	CDH, Torticollis	1 hour			
18	OR 12.1	CTEV	1 hour			

ii. Small Group Teaching (SGT)

	Small Group Teaching (SGT) Tutorials / Seminar / Group discussions etc.						
SI. No	Т	Topic: Competency (Number & Details) No. of Hours					
1.	OR2.4	Supracondylar fracture humerus in children	1 hour				
2.	OR 12.1	Perthes disease and SCFE	1 hour				
3.	OR 11.1	Carpal Tunnel syndrome, Cubital Tunnel Syndrome	1 hour				
4.	OR 2.6	Scaphoid fracture	1 hour				
5.	OR 4.1	TB Spine	1 hour				
б.	OR 10.1	GCT	1 hour				
7.	OR 10.1	Ewings sarcoma, Osteosarcoma	1 hour				

8.	OR 2.11	ACL injuries and PCL injuries	2 hour
9.	OR 2.11	Meniscal Injuries	1 hour
10.	OR6.1	Spondyloysis, Spondylolisthesis	1 hour
11.	OR 11.1	Brachial plexus injuries	1 hour
12.	OR 11.1	Thoracic outlet syndrome	1 hour
13.	OR 11.1	Foot drop, Wrist drop	1 hour
14.	OR 5.1	Osteoarthritis	1 hour
15.	OR 12.1	CTEV	1 hour
16.	OR 12.1	DDH	1 hour
17.	OR 6.1	IVDP	1 hour
18.	OR 2.12	Fat Embolism	1 hour
19.	OR 14.2	Amputation	1 hour
20.	OR 8.1/OR	Gait Analysis	1 hour
20.	9.1		
21.	OR 2.9	Acetabular fracture	1 hour
22.	OR 4.1	Potts Spine	1 hour
23.	OR 4.1	TB Hip/Knee	2 hour
24.	OR 7.1	Rickets (Genu Varum / Genu Valgum)	1 hour

iii. Self Directed Learning (SDL)

	Self Directed Learning (SDL)				
SI. No	Topic: Competency (Number & Details)	No. of Hours			
1	OR 13.1 Splints and tractions	1 hour			
2	OR 14.2Prosthesis	1 hour			
3	OR 1.5 & 1.6AVN femoral head	1 hour			
4	OR 12.1Pes planus and Pes cavus	1 hour			
5	OR 5.10A Knee	1 hour			

b. Practical

i. Bedside Clinics

	Bedside Clinics						
SI. No	Τοι	No. of Hours					
1	OR 1.5	Examination of Hip joint, IT fracture, neck of femur fracture	Bedside clinics	3 hour			
2	OR 1.5	Examination of Hip joint TB Hip AVN, Hip Arthritis	Bedside clinics	3 hour			

3	OR1.5	Examination of Knee joint ACL and PCL ligaments injury Meniscal injuries	Bedside clinics	3 hour
4	OR 1.5	Examination of Shoulder Periarthritis shoulder Cuff injuries	Bedside clinics	3 hour
5	OR 2.14	Examination of Foot and Ankle CTEV Foot drop Flat foot	Bedside clinics	3 hour
6	OR 11.1	Ulnar nerve, medial nerve and Radial nerve injuries	Bedside clinics	3 hour
7	OR 2.4	Cubitus Varus, Cuitus Valgum, Myositis ossificans	Bedside clinics	3 hour
8	OR 4.1	TB Spine	Bedside clinics	3 hour
9	OR 6.1	IVDP, Spondylolysis , Spondylolisthesis	Bedside clinics	3 hour
10	OR 8.1	Gait Examination	Bedside clinics	3 hour
11	OR 8.1	Neuromuscular disorders , Cerebral palsy and Poliomyelitis	Bedside clinics	3 hour

c. Clinical Clerkship / Evening Clinics

	Clinical Clerkship / Evening (Clinics	
Day	Торіс	Suggested TL Method	No. of Hours
OPD	OR 14.1 – Counselling patients regarding prognosis in patients with various orthopaedic illness OR 2.3 - Select, Prescribe and communicate appropriate medication for pain relief OR1.5, OR 6.5, OR 2.14, OR 11.1, OR 2.4, OR 2.15	Bedside clinics	2 hours
Post OPD	OR 1.1- Pre hospital care and casualty management of trauma victim including triage (at casualty) OR 1.2 – Clinical features and management of shock (at casualty) OR 14.2 – Consent for various orthopaedics procedures	Bedside clinics	2 hours
ОТ	OR 3.3 – Participate as a member in team , procedures live drainage of abscess, Sequestrectomy, Saucerization and arthrotomy.	Bedside clinics	2 hours

	OR 2.16 – Prevention of secondary infection (OT culture, Maintenance of sterility)		
Post OT	OR 12.2: Participate as a member in team bladder catheterization, IV access, Splinting and at casualty resuscitation of polytrauma patient	Bedside clinics	2 hours
Ward Rounds	OR 3.2 – Compression bandage, Wound dressing	Bedside clinics	2 hours

i. Skill Lab

	Skill Lab				
SI. No	SI. No Topic: Competency (Number & Details)				
1	OR 13.1 – Upper limb – Above elbow plaster and Below elbow plaster	3 hours			
2	Basic fracture fixation (0)	3 hours			

ii. Certifiable Skills

	Certifiable Skills						
SI. No	Skills that require certification	Criteria for certification	No. of Attempts				
1	OR 13.1 – Lower limb and Upper limb – Above elbow plaster, Below elbow plaster, Above knee plaster, Below knee plaster	Should be able to put Above elbow plaster and Above knee plaster correctly	2				

d. AETCOM Module

	AETCOM Module		
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours
1			
2			
3			

e. Pandemic Module

	Pandemic Module		
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours
	NOT APPLICABLE		

18. SCHEME OF EXAMINATION

a. Eligibility Criteria

- Students must secure at least 50% 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 Summative / University examination.
- Student should have a minimum of 75% attendance in Theory and 80% in Practical classes to be eligible to appear for Summative / University examination.
- Student must have completed the required certifiable competencies and completed the log book

b. Internal Assessment

i. Theory

- Multiple (a minimum of two) Internal Assessments (IA) will be conducted.
- The last IA will be conducted as Preliminary examination, which will mirror the university exams in marks and pattern.
- The final IA marks will be derived based on the table given below.
- The blueprint of all the IAs is also given in the table below.

THEORY		Phase 3-1	Phas	e 3-2	Final
		IA-1	IA-2	IA-3	Tota
	Theory	15	20	40	
Written	MCQ	10	10	15	
	AETCOM*			05	
FA	Formative assessment: SDL/Class tests/ MCQs/ Tutorials/ Seminars/ Assignments		05	05	
	Logbook	05	05	05	
	Total	30	40	70	140

Table 2: Blueprint of IA (Theory)

BLUEPRINT	N	umber of questions	
BLOEPRINT	IA-1	IA-2	IA-3*
MCQ (1 mark each)	10	10	15
Structured Long Essay	00	00	01
(10 marks each)	00	00 01	UT
Short Essay	01	02	02
(5 marks each)	UT	02	03
Short Answer	05	05	10
(2 marks each)	05	05	10
Total	25	30	60
(in marks)			
* AETCO	M should have a wei	ightage of 5 marks	

6.2.5. Practical

- Each clinical posting will include and End of Posting (EoP) test.
- The marks allotted for each EoP is tabulated below.
- The preliminary examination will include a practical examination which will mirror the university examination in marks and pattern.

	DEPARTMENT OF ORTHOPAEDICS								
	Integrated phase-wise Internal Assessment								
PRACTICAL		Phase 2	Phase 3-1	Phase 3- 2	Final				
		2 weeks	4 weeks	2 weeks	Total				
			EOP-2	EOP-3					
	Clinical skills assessment (OSCE/ Mini-CEX/	20	50	20					
EOP	Case presentation/ AETCOM)								
	Viva-voce (may include AETCOM)	05	10	10					
Others	Formative assessment	05	05	05					
others	Logbook/ Record book		05	05					
	Total	30	70	40	140				
	FINAL PRACTICAL IA MARKS = 35 (final total divided by 4)								

Table 3: Practical Internal Assessment

FINAL PRACTICAL IA MARKS

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)

6.2.6. Formative (Day to Day) Assessment

- Day to Day assessment will be performed and it will be added to the iA marks of theory as well as practical (as in tables above)
- Formative (Day to Day) assessment will be calculated based on attendance, maintenance of record books, log books, journals, case sheets etc
- Any assignments, presentations, seminars or other academic activity of note shall also reflect in the formative assessment

6.2.7. Remedial Assessment

 Remedial Examinations will be conducted as per the policy of Shri Dharmasthala Manjunatheshwara University and will be based on NMC guidelines.

c. Summative Assessment

- i. Pass Criteria
- A candidate shall obtain 50% marks in university conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject.
- In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

ii. Theory Summative Examination Format

- Third Professional Part II (Final Professional) examination shall be at the end of training (14 months including 2 months of electives) in the subjects of General Medicine, General Surgery, Obstetrics & Gynecology and Pediatrics.
- The disciplines of Orthopedics, Anesthesiology, Dentistry and Radiodiagnosis will constitute 25% of the total theory marks incorporated as a separate section in paper II of General Surgery.
- The disciplines of Psychiatry and Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis will constitute 25% of the total theory marks in General Medicine incorporated as a separate section in paper II of General Medicine.

iii. Blueprint of Theory Summative Examination

- Orthopedics is an allied subject of General Surgery
- It will be included in the Paper 2 of General Surgery as a separate section along with Anesthesiology, Dentistry and Radiodiagnosis

Table 4: Division of allied subjects of General Surgery in theory summative examination

ALLIED SUBJECTS OF GENERAL SURGERY Theory summative examination							
Subjects Marks							
Orthopaedics	35						
Anaesthesia	04						
Radiodiagnosis	04						
Dentistry	04						
Physical Medicine & Rehabilitation	03						
Total 50							
Allied subjects will form a separate section	on in paper 2 of General Surgery						

Table 5: Blueprint (Topic based) of theory summative examination

Blueprint of Theory Summative Examination								
(Topic based weightage)								
Topic / System	Total Weightage	MCQ	SLEQ	SEQ	SAQ	Total Marks		
1. General Orthopaedics	5%					5		
2. Regional Orthopaedics	5%					5		
3.Musculoskeletal injuries – General Principles	5%					5		
4. Regional Injuries of Upper limb	5%					5		
5. Regional injuries of Lower Limb	5%					5		
6.Regional injuries of Spline	5%					5		
7. AETCOM (5 marks per paper)	5%					5		
Total						35		

Note: 1. SLEQ : 1 question - 10 mark each = 10 marks

2. SEQ : 2 Questions - 5 Marks each = 10 marks

3. SAQ: 5 Questions - 3 Marks each = 15 marks

Total: 35 marks

d. Practical Summative Examination Format

	Summative on Format	Number of cases	Marks allotted for each case	Total (Marks)
	Long cases			
Clinical Cases	Short cases	2	15	
Clinical Cases	OR Case scenarios	2	15	30
Ward Cases				
Spo	Spotters			
Viva-voce			2	
Instruments and Splinting and X rays			3	5
TOTAL				35

• Orthopedics is an allied subject of General Surgery

19. INTEGRATION (HORIZONTAL & VERTICAL)

	INTEGRATION					
SI. no	Competency Number Competen	Compotonov Dotail	Nesting / Sharing / Aligning /	-	ation with artments	
		Competency Detail	Correlation	Horizontal	Vertical	
1.						
2.						

20. RECOMMENDED BOOKS

a. Text books

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

b. Reference books

- SM Tuli textbook of tuberculosis of the skeleton system
- S. Das A manual of clinical Surgery
- John Ebnezars textbook of orthopaedics
- Maheshwari textbook of orthopaedics
- Miller's review of orthopaedics
- AAOS Comprehensive orthopaedics review
- Campbells Operative orthopaedics
- Ronald McRae Clinical orthopaedic examination
- c. Journals

DERMATOLOGY, VENEREOLOGY & LEPROSY

21. <u>GOAL</u>

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.

22. OBJECTIVES

a. Knowledge

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

b. Skills

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

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

c. Attitude & 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. Motivate patients with chronic diseases to adhere to the line of management as outlined by the health care provider.
- iii. Follow the treatment guidelines and counsel the patient to adhere and comply.
- iv. Respect patient's privacy.
- v. Maintain confidentiality.
- vi. Work in a healthcare team efficiently while respecting all its members.
- vii. Continually strive for updating his/her own knowledge and skill.
- viii. To treat prolonged illnesses with regular follow-up, monitoring, proper counseling and refer to higher centers if required.

d. 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.

TEACHING HOURS

THEORY	Teaching-Learning Method	No. of Hours
Α	Large Group Teaching (LGT)	00
В	Small Group Teaching (SGT)	00
С	Self Directed Learning (SDL)	00
·	Total	00

PRACTICAL	PRACTICAL Teaching-Learning Method	
Α	Bedside Clinics	2
	Total	

OTHERS	Teaching-Learning Method	No. of Hours
A	AETCOM	5 hrs
В	Pandemic Module	-
C	Skill Lab	-
	Total	5 hrs

23. COURSE CONTENT

a. Theory

i. Large Group Teaching (LGT)

Large Group Teaching (LGT)			
	Theory Classes		
SI. No	Topic: Competency (Number & Details)	No. of Hours	
NOT APPLICABLE			

ii. Small Group Teaching (SGT)

	Small Group Teaching (SGT) Tutorials / Seminar / Group discussions etc.		
SI. No	Topic: Competency (Number & Details)	No. of Hours	
	NOT APPLICABLE		

iii. Self Directed Learning (SDL)

Self Directed Learning (SDL)			
SI. No	Topic: Competency (Number & Details)	No. of Hours	
NOT APPLICABLE			

b. Practical

i. Bedside Clinics

	Bedside Clinics			
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours	
DR1.2	Identify and grade the various common types of acne	Bedside Clinics		
DR2.1	Identify and differentiate vitiligo from other causes of hypopigmented	Bedside Clinics		
DR3.1	Identify and distinguish psoriatic lesions from other causes	Bedside Clinics		
DR3.2	Demonstrate the grattage test	Bedside Clinics		
DR4.1	Identify and distinguish lichen planus lesions from other causes	Bedside Clinics		
DR14.2	Identify and distinguish urticarial from other skin lesions	Bedside Clinics		
DR14.3	Demonstrate dermographism	Bedside Clinics		
DR14.4	Identify and distinguish angioedema from other skin lesions	Bedside Clinics		
DR16.1	Identify and distinguish skin lesions of SLE	Bedside Clinics		
DR16.2	Identify and distinguish Raynaud's phenomenon	Bedside Clinics		
PE31.4	Identify Atopic dermatitis and manage	Bedside Clinics		

Clinical Clerkship / Evening Clinics			
Day	Торіс	Suggested TL Method	No. of Hours
	10-11am		
Monday	OPD case presentation		
wonuay	5-6 pm admitted cases		
	presentation		
	10-11am		
Tuesday	OPD case presentation		
Tuesday	Post admission rounds		
	presentation		
	10-11am		
Wednesday	OPD case presentation		
	Follow up of cases		
	10-11am		
Thursday	OPD case presentation		
	Follow up of cases		
	10-11am		
Friday	OPD case presentation		
	Case sheet writing		
Saturday	Discharge paper writing		

ii. Clinical Clerkship / Evening Clinics

iii. Skill Lab - NA

	Skill Lab		
SI. No	Topic: Competency (Number & Details)	No. of Hours	
1			
2			
3			
4			
5			

Certifiable Skills				
SI. No	Skills that require certification	Criteria for certification	No. of Attempts	
1				
2				
3				
4				
5				

iv. Certifiable Skills : There is no certifiable skill for the academic year Certifiable Skills

c. AETCOM Module

	AETCOM Module						
SI. No	Lonic' Competency (Number & Details)						
1	Module 4.5-Case studies in ethics: the doctor-industry relationship		5hrs				
2							
3							
4							
5							

d. Pandemic Module

There is No pandemic module for the academic year

Pandemic Module					
SI. No	Topic: Competency (Number & Details)	Suggested TL Method	No. of Hours		
1					
2					
3					
4					
5					

24. SCHEME OF EXAMINATION

a. Eligibility Criteria

- Students must secure at least 50% 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 Summative / University examination.
- Student should have a minimum of 75% attendance in Theory and 80% in Practical classes to be eligible to appear for Summative / University examination.
- Student must have completed the required certifiable competencies and completed the log book

b. Internal Assessment

- i. Theory
- Multiple (a minimum of two) Internal Assessments (IA) will be conducted.
- The last IA will be conducted as Preliminary examination, which will mirror the university exams in marks and pattern.
- The final IA marks will be derived based on the table given below.
- The blueprint of all the IAs is also given in the table below.

Table 1: Theory Internal Assessment

There are no theory IAs in MBBS 3-2 for the subject of Dermatology, Venereology & Leprosy

Table 2: Blueprint of IA (Theory)

Not applicable

6.2.8. Practical

- Each clinical posting will include and End of Posting (EoP) test.
- The marks allotted for each EoP is tabulated below.
- The preliminary examination will include a practical examination which will mirror the university examination in marks and pattern.

Table 3: Practical Internal Assessment

	DEPARTMENT OF DERI	MATOLOGY, VEN	IEREOLOGY & L	EPROSY	
	Integrated ph	ase-wise Interna	Assessment		
PRACTICAL		Phase 2 Phase 3-1 2wk posting 2wk posting		Phase 3-2 2wk posting	Final 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	
	Logbook/ Record book		05	05	
	Total	30	30	40	100
	FINAL PRACTICAL IA	MARKS = 20 (fi	nal total divide	d by 5)	
	At least one EOP is to	be conducted wi	ith OSCE as a pa	art of it.	
AETCOM	may be included as an O	SCE station or a	s a part of viva-	voce during	g EOP, if
it needs	to be assessed in practic	al (Refer compe	tency booklet &	AETCOM r	nodule)

Dermatology, Venereology & Leprosy IA marks will be added to General Medicine

ALLIED SUBJECTS OF GENERAL MEDICINE Final IA calculation				
Subjects Marks				
Psychiatry	15			
Dermatology, Venereology and Leprosy	20			
Respiratory Medicine including	10			
Tuberculosis	10			
Casualty	05			
Total	50			

6.2.9. Formative (Day to Day) Assessment

- Day to Day assessment will be performed and it will be added to the IA marks of theory as well as practical (as in tables above)
- Formative (Day to Day) assessment will be calculated based on attendance, maintenance of record books, log books, journals, case sheets etc
- Any assignments, presentations, seminars or other academic activity of note shall also reflect in the formative assessment

6.2.10. Remedial Assessment

 Remedial Examinations will be conducted as per the policy of Shri Dharmasthala Manjunatheshwara University and will be based on NMC guidelines

c. Summative Assessment

- i. Pass Criteria
- A candidate shall obtain 50% marks in university conducted examination separately in Theory and Practical (practical includes: practical/ clinical and viva voce) in order to be declared as passed in that subject.
- In subjects that have two papers, the learner must secure at least 40% marks in each of the papers with minimum 50% of marks in aggregate (both papers together) to pass in the said subject.

ii. Theory Summative Examination Format

- Third Professional Part II (Final Professional) examination shall be at the end of training (14 months including 2 months of electives) in the subjects of General Medicine, General Surgery, Obstetrics & Gynecology and Pediatrics.
- The disciplines of Orthopedics, Anesthesiology, Dentistry and Radiodiagnosis will constitute 25% of the total theory marks incorporated as a separate section in paper II of General Surgery.
- The disciplines of Psychiatry and Dermatology, Venereology and Leprosy (DVL), Respiratory Medicine including Tuberculosis will constitute 25% of the total theory marks in General Medicine incorporated as a separate section in paper II of General Medicine.

iii. Blueprint of Theory Summative Examination

- Dermatology, Venereology and Leprosy (DVL) is an allied subject of General Medicine
- It will be included in the Paper 2 of General Medicine as a separate section along with Respiratory Medicine including Tuberculosis, Psychiatry and Casualty

<i>Table 4: Division of allied subjects of General Medicine in theory summative</i>
examination

ALLIED SUBJECTS OF GENERAL MEDICINE Theory summative examination					
Subjects Marks					
Psychiatry	20				
Dermatology, Venereology and Leprosy	15				
Respiratory Medicine including	15				
Tuberculosis					
Casualty 00					
Total 50					
Allied subjects will form a separate section in paper 2 of General Medicine					

Table 5: Blueprint	(Topic based) of the	eorv summative	examination
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	Blueprint of T			ination		
	(Top	oic based we	ightage)			
Topic / System	Total Weightage	MCQ	SLEQ	SEQ	SAQ	Total Marks
1.						
2.						
3.						
4.						
5.						
б.						
7. AETCOM (5 marks per paper)						
Total						

iv. Practical Summative Examination Format

Practical Summative Examination Format		Number of cases	Marks allotted for each case	Total (Marks)
	Long cases			
Clinical Cases	Short cases			
	Case scenarios			
Ward	Ward Cases			
Spo	Spotters			
Viva-voce				
Others				
TOTAL				

25. INTEGRATION (HORIZONTAL & VERTICAL)

	INTEGRATION							
	Competency	Nesting / Sharing /	Integration with departments					
SI. no	Competency Number	Competency Detail	Aligning / Correlation	Horizontal	Vertical			
1.	16.1	Identify and distinguish skin lesions of SLE		Pathology	Medicine			
2.	16.2	Identify and distinguish Raynaud's phenomenon		Pathology	Medicine			
3.								
4.								
5.								
6.								

26. <u>Recommended Books</u>

a. Text books

• Three text books with authors and editions

b. Reference books

Up to seven reference books

c. Journals



SDM College of Medical Sciences & Hospital



SDM College of Dental Sciences & Hospital



SDM College of Physiotherapy & SDM Institute of Nursing Sciences



Shri Dharmasthala Manjunatheshwara University



SDM Research Institute for Biomedical Sciences



Panoramic View of Campus