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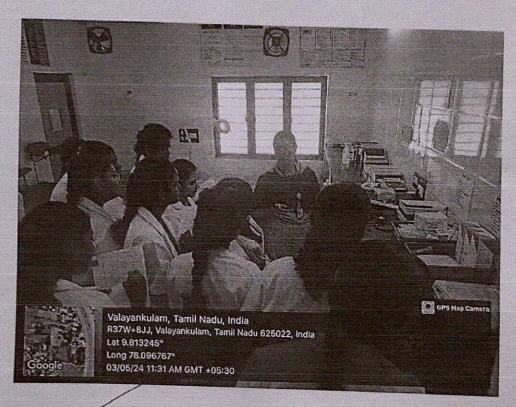
Department of Community Medicine

Student-centric learning methods

As per the recommendations of the Medical Council of India, the institute promote and implement the instructional methods that are learner centred, invoking the critical thinking, self-directed learning to motivate them to become lifelong learners. Much focus is given in creating a supporting and collaborative learning environment for students. Our department has successfully incorporated student-centric learning strategies like problem-based learning (PBL), team-based learning (TBL), flipped classroom and e-learning to facilitate higher learning skills among MBBS students.

1. Experiential learning

The students are engaged in the experiential learning through various teaching learning strategies like practical/demonstration, clinical posting, periodical field visits and community survey, student seminar, simulation, role play and involving students in various hospital and community-based research.



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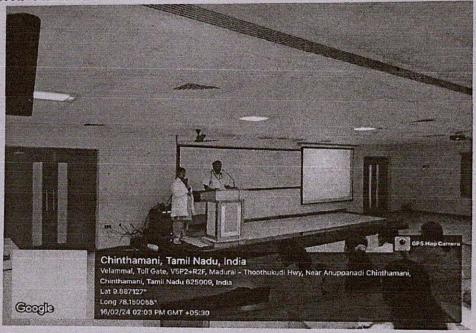
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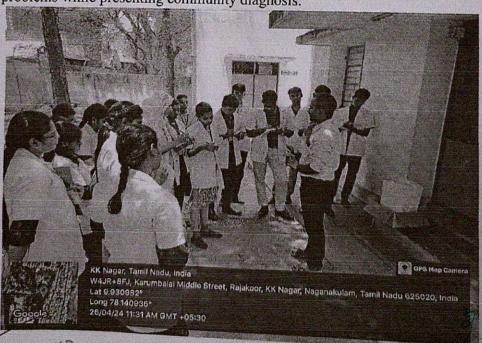
2. Integrated/interdisciplinary learning

Our department has implemented horizontal, vertical, as well as transdisciplinary integration by involving various pre & para clinical and clinical departments to teach a pertinent topic in more effective manner.



3. Participatory learning

The department of community medicine involves students regularly in village health survey and family health survey where students are actively involved in interaction with the community and teachers motivates them to reflect upon their own experience and skills in solving problems while presenting community diagnosis.



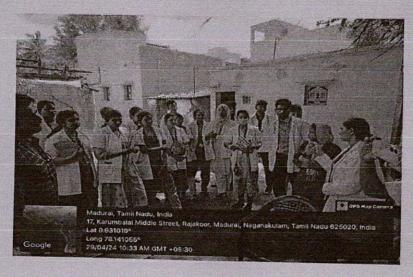
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Vetammai Madical Institute
and Research Institute
Madural-625 009



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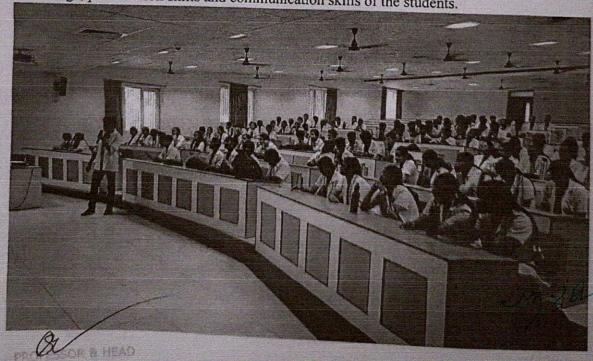
4. Problem solving methodologies

The group of students are given a case scenario and are advised to identify the problem and to list out the necessary steps to diagnose and manage the case. The students are encouraged to think out of box and give their approach to different case scenarios. Finally, the students are encouraged to present the analysis of the problem, synthesize and test information.



5. Self-directed learning

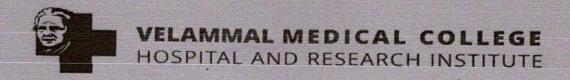
Along the entire span of the academic calendar, self-directed learnable topics are identified and given to students at intervals as per the university guidelines especially focusing on recent advances in the subject. The reference material including books, articles and websites, is communicated in advance to the students. The doubts of the students are clarified. In addition to these students are encouraged to undertake research projects. Student Seminars are organised regularly by assigning a topic to group of students which improves the knowledge, presentation skills and communication skills of the students.



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6. Patient-centric and Evidence-Based Learning

The students are provided with the case studies and the faculty encourages them to further identify and review Evidence Based Medicine strategies and resources to diagnosis and manage the condition. The communication skills are taught during the lectures as well as during practical, clinical rotation regularly. Patient-centric approach and communications skills are evaluation through OSPE.



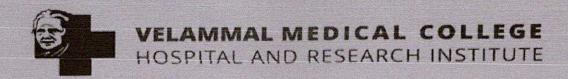
7. Learning in the Humanities

The faculties of are more focused toward teaching medical students the issues beyond clinical illness, especially bio-psychosocial aspects, communication, epidemiology, the natural history of diseases, health systems and the role of support mechanism, the knowledge of which is crucial in providing comprehensive care to the patient. Department of Community Medicine is primarily involved in of imparting community-based education. Students are actively engaged in survey, camps and awareness programmes.



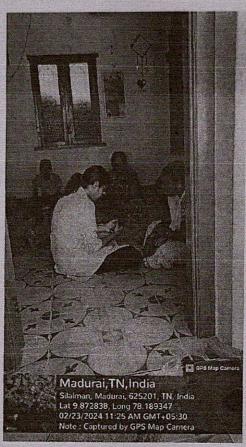
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8. Role play

Role-play is used as a teaching methodology. Faculties help the student to organise role paly on the topic like communication skills, deaddiction etc.



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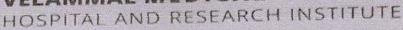
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THEORY CLASS SCHEDULE, JUNE 2024

BATCH-2021-22		3 rd year MBBS	(8 - 9 am)	
SN	Date	Topic	Faculty	
1	4.6.2024	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Trachoma, Tetanus & Yaws	Dr. Santha	
2	11.6.2024	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Hospital Acquired Infections	Dr.Samir	
3,	18.6,2024	CM 7.2 & 8.1: Emmerate, describe and discuss the modes of transmission and measures for prevention and control of Brucellosis & Salmonellosis - Flipped Classroom	Dr.Sudhir	

SN	Date	TOPIC	2 - 4 pm) Faculty
1.	3.06.24(A) 4.06.24(B) 5.06.24(C)	SGD: CM 12.1, 12.2 & 12.3 Define and describe the concept of Geriatric Services, health problems of aged population, prevention of health problems of aged population & National program for elderly	Dr. Munish Dr. Alamelu Dr. Asifa Dr. Pavithra
2,	10.06.24(A) 11.06.24(B) 12.06.24(C)	SGD: CM 6.1 & 6.2 Formulate a research question for a study, Describe and discuss the principles and demonstrate the methods of collection, classification, analysis, interpretation and presentation of statistical data.	Dr. Ramji Dr. Santha Dr. Asifa Dr. Pavithra
	17.06.24(A) 18.06.24(B) 19.06.24(C)	SDL: CM 15.1, 15.2 & 15.3 Define and describe the concept of Mental Health, warning signals of mental health disorder & National Mental Health program.	Dr. Sriandaal Dr. Sudhir Dr. Gavin Dr. Thendral

Dear faculties kindly adhere to teaching schedule, exchange of classes require prior permission

Professor Head,

Department of Community Medicine, VMCH &RI, Madural

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SN	Date	2 nd year MBBS Theory Schedule	(9 - 10 am)
a F-Mpoke	+	Topic	Faculty
1.	3.6.24	CM 7.2 & 8.1; Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Poliomyelitis – Problem Based Learning	Dr. Praveena
2.	10.6.24	modes of transmission and measures for prevention and control of Viral Hepatitis	Dr. Alamelu
3.	17.6.24	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Acute Diarrhocal Diseases - Integrated Teaching	Dr. Sudhir
4.	24.6.24	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Cholera & Typhoid Fever - Student Seminar	Dr. Sriandaal

CLINICAL POSTING SCHEDULE, JUNE 2024 Batch: 2022-23 - II Year MBBS

ALC: UNION CONTRACTOR AND CO.	No: 57-76 Date	13.5.2024 – 16.6.2024	Time: 10 am - 1 pm
ı	3.06.24	Orientation to Family Health Survey, Village Health Survey, Diet Survey	Faculty Dr.Samir, Dr.Sudhir,
2	4.06.24	RHTC, Village Health Survey	Dr.Praveena, Dr. Munisl
3	5.06.24	UHTC, Family Health Survey & Diet Survey I	Dr Sriandaal
4	6.06.24	World Environment Day Awarness Activity, Family Health Survey & Diet Survey II	Dr. Alamelu Dr Sriandaal
5	7.06.24	Community Diagnosis - Data Interpretation	
5	10.06.24	Visit to Solid waste Management	Dr Ramji, Dr. Munish
	11.06.24	Visit to Sewage Treatment Plant	Dr. Santha
	12.06.24	Visit to Anganwadi	Dr. Alamelu
)	13.06.24	Visit to Water Treatment Plant	Dr. Santha
0	14.06.24	End posting examination	Dr.Sudhir
		1 Posting examination	All faculties & PGs

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DEPARTMENT OF COMMUNITY MEDICINE THEORY CLASS SCHEDULE, MAY 2024

BATCH-2021-22		11-2021-21 3 rd year MBBS Ø	
SN	Date	Topie	Faculty
	87,5,2624	CM 7.2 & 8.1 Enumerate, describe and discuss the mades of transmission and measures for prevention and control of Dengue - Lecture	
2	28 5,2024	CM 7.2 & 8.1 : Enumerate, describe and discuss the modes of transmission and measures for prevention and control of (Zika virus, Yellow Fever, Nipha virus) diseases. Flipped Classroom	

Practical class schedule – IT/SGD/SDL (2			2 – 4 pm)	
SN	Date	TOPIC	Faculty	
1.	6.05.24(A) 7.05.24(B) 8.05.24(C)	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Leprosy-Small Group Discussion	Dr Alamelu Dr Asifa Dr Pavithra	
2	27.05.24(A) 28.05.24(B) 29.05.24(C)	CM 7.2 & 8.2: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Non Communicable Diseases (Obesity, Diabetes, Oral Disease, RTA)-Self Directed Learning	Dr. Sriandaal Dr Asifa Dr Pavithra	

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Professor Head,

Department of Community Medicine, VMCH &RI, Madurni

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Department of Community Medicine THEORY CLASSES SCHEDULE, APRIL 2024

BATCH-2021-22

3rd year MBBS

(8 - 9 am)

S.N	Date	Topic	Faculty
1.	02.04.24	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Sexually Transmitted Diseases – Student Seminar	Dr. Praveena
2.	9.04.24	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Plague & Leptospirosis- Flipped Classroom	Dr. Sudhir
	16.04.24	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of Lymphatic Filariasis- Student Seminar	Dr. Munish
	30.04.24	CM 7.2 & 8.1: Enumerate, describe and discuss the modes of transmission and measures for prevention and control of - Managem + Reducer - CJAPANECE ENCEPER SAMUR FOREST DISEASE, CHIKUN GIUNVA	DY SAUTHA

Exchange of classes require prior permission

Professor Head,

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Department of Community Medicins INFORT CLASSES SCH

#110 8.8	Date	2nd year MILES Topie	(9 - 10 am) Faculty
1	05.02.24	CNI 14 Describe the concept of solid waste, human excreta disposal - Hipped classmon	Dr. Praveena
). - Miles	1249.24	CM 3.4 Describe the concept of sewage and its disposal. Students seminar	Dr. Sudhir
)	19/02/24	CM 3.7 Identity and describe the identifying features and life cycles of mosquito, its Public Health importance and their control measures - Lecture	Dr. Munish
1	26.02.24	CM 3.5 Describe the standards of housing and the effect of housing on health - Interactive Lecture	Dr. Samir

2nd year MBBS (2022-23 BATCH)

Practical class schedule - IT/SGD/SDL

SN	Date	Topie	
	16.02.24	Integrated Teaching CM8.1 Describe and discuss the epidemiological and control measures including the use of essential laboratory tests at the primary care level for communicable diseases – Tuberculosis	Dr. Sriandaal Dr. Asifa Dr. Pavithra
	22.02.24	Small Group Discussion CM 3.7 Identify and describe the identifying features and life cycles of vectors its Public Health importance and their control measures CM 3.8 Describe the mode of action, application cycle of commonly used insecticides and rodenticides	Dr. Alamelu Dr. Bharath Dr. Shalini

Faculties should adhere to teaching schedule, exchange of classes require prior

Denartment of Community Madishay Water

ospital

Velammal Medical College Hospital and Research Institute Department of Physiology

Student Centric Methods

Student-centric methods in medical education focus on engaging students actively and tailoring learning experiences to their needs and preferences. Self-directed learning (SDL) empowers students to take ownership of their education, fostering critical thinking and lifelong learning skills. The flipped classroom model enhances understanding by allowing students to review lecture materials at their own pace and use classroom time for interactive, hands-on activities. Seminars promote in-depth discussion and exploration of topics, while quizzes provide immediate feedback and reinforce knowledge. Roleplay offers immersive experiences that develop communication and clinical skills in a realistic context. Experiential learning, particularly through gamified methods, makes learning dynamic and enjoyable, increasing student motivation and retention. Case-based learning helps students apply theoretical knowledge to real-world scenarios, enhancing problem-solving abilities. Blended learning combines traditional face-to-face instruction with online resources, providing a flexible and comprehensive educational approach. These diverse, student-centric methods collectively create a robust, engaging, and effective learning environment in medical education.

S.no	Student Centric method	Competition type	Date
1	Blood Quiz	Intracollege	6.11.2023
2	General Physiology Quiz	Intracollege	31.05.2024

S.no	Student Centric method	Topic	Date
1	Experimental learning -	AETCOM	19.01.2024
	Gamified Learning		

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and Research Institute of the State of the

S.no	Student Centric method	Modules
1	SDL	10

S.no	Student Centric method	Modules
1	Early Clinical Exposure	9
	(ECE)	

S.no	Student Centric method	Number
1	Seminar	8

S.no	Student Centric method	Modules	Sessions
1	Case Based Learning	Theory classes	5
		Assignments	

S.no	Student Centric method	Topics
1	Flipped Classroom	Taste pathway
		Olfactory pathway

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Velammal Medical College and Hospital, Madurai

Department of Physiology

Early Clinical Exposure Topics for 2023-2024 Batch

Early Clinical Exposure involves assessment of student level of learning through assessment of the synopsis and reflection. Department of Physiology had conducted about 9 Early Clinical Exposure topics for the First year MBBS students for the 2023-24 Batch. This unique learning methodology was employed so as to augment the clinical concepts in a non-conventional way to didactic lectures. Pre and Post Test was conducted.

SI No	Date	Торіс	Faculty
1	13.10.2023	Anemia	All staff
2	10.11.2023	Myasthenia Gravis	All staff
3	22.11.2023	Electromyography (EMG)	All staff
4	23.11.2023	Dumping Syndrome	All staff
5	01.12.2023	Cholera	All staff
6	19.02.2024	Cystic Fibrosis	All staff
7	18.03.2024	Liddle's Syndrome	All staff
8	04.04.2024	Hemiplegia	All staff
9	02.05.2024	Thalamic Syndrome	All staff

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No	Topic (April 1997)	MARKS (out of 10	Initial of Facilitator
13/10/23	ANAEMIA	marks)	A
2 10 11 23	MYASTHENTA GRAVIS	10	A
22/14/23	ELECTROMYOGRAPHY (EMG)	0	A
23/11/p3	DUMPING SYNDROME	ે 8	08
2 (1/12/23	CHOLERA (1)	8	N
19/02/24	CYSTIC FIBROSIS	als	A
18/03/24	LIDDLE'S SYNDROME	10	P
4/09/20	HEMIRECIA	10	A
205 [29	THALAMIC SYNDROME	10	0

	sion 4:	DUMPING SYNDROME
Date 23-11	. 2013	Initial of Facilitator
		1 0
Objective of ECE Session	To Leasn	about Durging suntend accusace - post subject accusace - post subject accusace - clinical reason.
	im Sunda	the catted sopic game emptying // me is a gaintentestinal disorder of and unconvolved emptying of small intesting.
Clinical F		the busi bash between the unus bigges
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o asc	dumping	Spackive hypogrycemes due to exaggerated steleaux of insular
		→ weathers / 1-3 hours → sweathery / 1-3 hours → palpitohous / after a meat
a complice a complice by Dumping	nion of son	agous on stomach such as
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Prof. T. THIRUNAVUKKARASU, M.D.D.A.,

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Pre and Post Test:

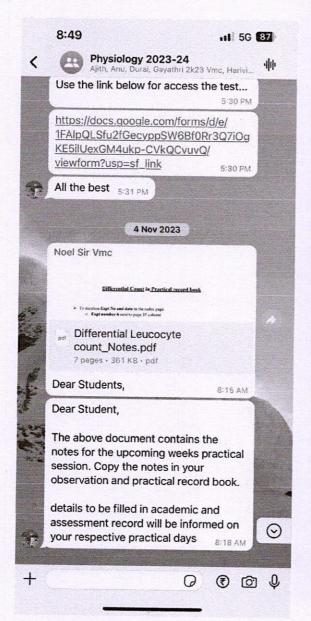
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1) write the normal RRC court grang in adult male?
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2) which of the following the argun of Anomita?
cyanois × (315)
3) Anemia can be checked in which of the following locations
wait conjuntiva
a which of the following to not a sign of assemble?
VomPtog /
5) Absence of palmour crease is align of source anomia,?
False +
Port - text
1) 5-6 million cells /mm³
2) Pallox
3 conjuctue (518) Nove
4 Vamilting
5) True

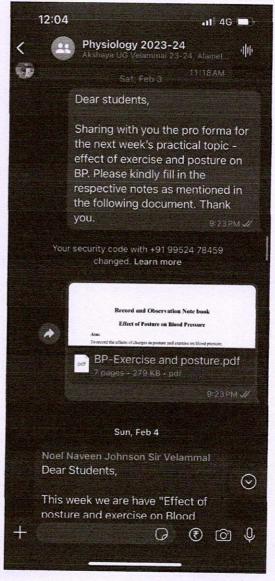
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and Research Institute
"Velammal Village"
Madural-Tuticorin Ring Rom
Anuppanadi, Madural-625 60s.,

BLENDED LEARNING

We, the department of physiology are following the blended learning for the first year MBBS students. We regularly post the reading materials including study topic, specific learning objectives, course outline and the detailed content via the online platform like WhatsApp group. We instruct the students to go through the reading materials before they come for the class. During their practical classes, we explain the concepts pertaining to the particular experiment and demonstrate it to the students. As they are already primed about the topic and the contents, they tend to be more interactive and learn the experiment in a better way. The students are assessed based on the NMC competencies.





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Dean

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4. Haematology Lab Record

Note:

1. This section captures the attainment of the various competency mile-stores attained through haematology lab work.

2. The learner shall make observation in the lab and makes entries as mandated in the concerned record book

3. The record books shall be verified by the faculty facilitator periodically / at the end of each session or module and the completion of each such activity shall be recorded in this section by the learner and signed by the facilitator.

4. The end of each session shall be appended by an end of training formative assessment in the topic / session / module. eg: OSPE. Such sessional outcomes and feed for such outcomes, may be suitably entered in the concerned documents.

No	Test / Procedure / Experiment	Date of Completion	Initials of Facilitator
1	mieroscope.	28.09.2025 .	197
2	sumonytometes.	05 10 2023.	195
3	RBC count.	12.10.2023.	12-
4	Estimation of WBC Count	19-10-2023	12
5	Kemogloben extimation	02-11.2023	19
6	Identification of WBC.	07-12-2022	195
7	Blood group	14.12.2023	15
8	Determination of weeding time	14-12-2023.	A
9	RGC indices	02.04.2024	19
10	Alwolute Eorinophil	04.04.24.	- U

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No	Test / Procedure / Experiment	Date of Completion	Initials of Facilitator
11	Enythmocyte sedimentation	PARTICULAR PROPERTY AND A PROPERTY A	10
12	Packed cell volume.	04.04.24	11
13	cosmotic propicity.	04.04.24	u
14	societic exacity.	04.04.24.	te
15	Platelet count	43.06.24	10
16	leticulocype count	13.06.24	18
17			
18			
19			
20			

Prof. T. THIRUNAVUKKARASU, M.D.,D.A.,
Dean

Velammal Medical College Monard Research Institute
"Velammal Village"
Madural-Tuticorin Ring
Anuppanadi, Madural-625 005,

5. Clinical Physiology Lab Record

Note

 This section includes academic mile stones attained through Clinical Physiology lab work.

2. The learner shall make observation entries as mandated in the record book

 The record note books shall be verified by the faculty facilitator at the end of each session or module.

 The completion of each such activity shall be recorded in this section by the learner and signed by the facilitator

 The end of each session shall be appended by an end of training formative assessment in the topic / session / module. eg: OSPE, DOPS etc. Such sessional outcomes and feed for such outcomes may be suitably entered in the concerned documents.

No	Test / Procedure / Experiment	Date of Completion	Initials of Facilitator
1	yeneral examination	04:01-2024.	18/
2	Examination of pulse	11.01.2024	10
3	examination of	2501-2024	1/2
4	Examination of ECG	01.02.2024	10
5	E xamination of effect of posture + exercise on BP	08.02.2024	
6	Examination of cvs.	15.02.2024.	18
7	spisometry.	29.02.2024	19/
8	моггоз игрод гарпу.	29.02.2024	18/
9	Examination of RS	07.03.2024	19
10	Methograph	14.08. 2024	197
11	Examination of sensor	15.04.2024	. 9

No	Test / Procedure / Experiment	Date of Completion	Initials of Facilitator
12	Examination of knee jest seglex.	18.04.2024	192
13	Examination of motor	09.05.2020	K
14		09.05.2024	18
15	Examination of coanial nerves (7-12).	09.05 2024	12
16	cerebellar for tens.	09-07-2024	U
17	Harraseli nep	09.05-24.	V
18		13.06.24	T U
19		1 13-116-110	14
20	interpretation.	13.06-24	lu
21	Respiratory Efficiency	20.6.24	U
22	Examirousion of updamen.	20.6.24	V
23	observation in Abdamen	20.6.24	V
24		20-6-24.	U
25			
26			
27			

Prof. T. THIE MAYUKKARASU, M.D.D.A.,

Differential Count in Practical record book

- > To mention Expt No and date in the index page
 - o Expt number 6 next to page 35 column
- > To write Expt number and date in page number 35
- To write the following in page number 39

Aim:

To determine the differential count of white blood cells

Apparatus Required:

Grease free and dry glass slides, Leishman's Stain, Distilled water, Lancet, Spirit, and Cotton.

Leishman's Stain - Composition and function:

- Methylene Blue (Basic component) Stains acidic granules in cytoplasm especially granules of basophils and nuclei of leucocytes
- Eosin (Acidic component) Stains cytoplasm, basic granules in cytoplasm and hemoglobin of RBCs.
- Acetone free methyl alcohol Fixes the cells (Acetone free methyl alcohol is used as
 acetone is a lipid solvent that lyses cell membrane).

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Basic Life Support (BLS)

Basic life support generally refers to the type of care that first responders, healthcare providers and public safety professionals provide to anyone who is experiencing cardiac arrest, respiratory distress or an airway obstruction.

Chain of survival:

- Recognition of cardiac arrest and activation of emergency response system.
- Early CPR with an emphasis on chest compressions.
- · Rapid defibrillations.
- Basic and advanced emergency medical service.

Before performing CPR:

- Scene safety ensure the safety of the collapsed person.
- Check for responsiveness and assess for breathing.
- Shift patient to safety and call emergency services.
- Perform CPR rescue breaths if needed.

In 2010, American Heart Association (AHA) guidelines for CPR rearranged the order of performing CPR. Currently AHA teaches the rescuers to practice C-A-B (Chest compressions, airway and breathing).

If a medical professional is a rescuer, then he should check the carotid pulse after victim before starting compressions. Pulse should be checked for a minimum of 5 seconds and not more than 10 seconds. In case pulse is present but there is no breathing, maintain patient's airway and begin rescue breathing. Administer one breath every 5 to 6 seconds not exceeding 10 to 12 breads per minute check for change in carotid pulse every 2 minutes.

Chest compressions:

- Place the heal of the interlocked hands on point of intersection of intermammary line and angle of sternum with wrist, elbow and shoulder in a straight line.
- Compressions should be initiated within 10 seconds of recognition of cardiac arrest.
- Push hard and fast at a rate of 100 to 120 compressions per minute and to a depth of at least 2 inches for an average adult while avoiding excessive chest compressions.
- Avoid complete chest recompression after compression to ensure adequate ventricular filling.
- Minimum interruptions during compressions (< 10 seconds).

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PULSE & JVP in Practical Record Book

- > To mention Expt No and date in the index page
 - Expt number 2 next to page number 155 column and the date on which you will be doing the experiment
- Write the Expt number and date on page number 155
- Write the following (starting from the free space in the lower half of page number 161

-		24	

To examine the arterial and venous pulse of the given subject

Name:

Age:

Gender:

Occupation:

Observations:

Radial Pulse Examination:

	Features of Pulse	Right side	Left side
1	Rate		
2	Rhythm		
3	Volume	Made Balling	
4	Character		
5	Condition of the vessel wall		
6	Radio-femoral delay		
7	Pulse deficit		

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Velammal Medical College Hospital and Research Institute Department of Physiology

Case based Learning

Case based learning helps the students to communicate with the peer people and understand the clinical case in an easier way. It also promotes team work and critical thinking among students to arrive at the diagnosis. Department of physiology regularly conducts case-based learning activities for first year MBBS students and the relevant materials are posted in the student WhatsApp group prior for them to access and orient themselves. Then the cases are discussed in the class. Few more case scenario samples are given as assignments and the answers are graded. The outcome of this case-based learning is analyzed during Theory and Practical Internal Assessment.

S.no	Topics	Date
1	General Physiology	28/09/2023
2	CVS	20/02/2024
3	RS	21/02/2024
4	Endocrine	20/04/2024
5	Reproduction	20/04/2024

Case discussion during classes:

- 1. A 35-year-old man and his wife present to the clinic seeking assistance with conception. They have been actively trying to conceive for the past 18 months without success. The wife has regular menstrual cycles, and her recent gynecological examination was unremarkable. The man has no significant past medical history and is not taking any medications. He denies any history of sexually transmitted infections, genitourinary surgery, or exposure to gonadotoxic agents. His physical examination is normal.
- 2. A 14-year-old girl presents to the clinic with concerns about her menstrual cycle. She experienced menarche at the age of 12 and her menstrual cycles have been firegular

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Velammal Medical College Hospitol and Research Institute "Velammal Village" Madural-Tuticorin Ring Road Anuppanadi, Madural-625 009, T.N. since then. Over the past year, she has experienced unpredictable menstrual cycles, with intervals varying from 20 to 50 days. She reports heavy menstrual flow, lasting 7-9 days, and significant menstrual pain, interfering with her school attendance and daily activities.

- 3. A 29-year-old woman presents to the clinic with a complaint of amenorrhea. She reports having regular menstrual cycles since menarche at the age of 12, with a cycle length of 28-30 days. However, she has not had a menstrual period for the past 3 months. The patient denies any recent weight changes, excessive physical activity, or significant stress.
- 4. A 38 year old female presents to her primary care physician with complaints of weight gain, particularly in her abdomen and face, despite no change in diet or exercise routine. She also reports feeling fatigued, weak, and experiencing easy bruising, along with irregular menstrual periods. She mentions noticing stretch marks on her abdomen and thighs.

Blood pressure: 160/90 mmHg;

Heart rate: 90 bpm

Visual examination reveals central obesity with a buffalo hump (fat accumulation between the shoulders), moon facies (rounding and redness of the face), and prominent purple striae on her abdomen and thighs.

Skin examination shows thinning and easy bruising.

Proximal muscle weakness is noted, particularly in the upper extremities.

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Assignments:

28 01 2024 t) bother charles refused to he apartment at 5 pm on the evening h turned on the old Konokne-fueled space cheater, as his apartment use chilly he did not open the window after upending an hour disting during and another half shows eating it while weatching TV, the noticed that this vivian became poragressively. dolovered. when he got up to go to the kitchen whe shelt light headed and unsteady, the obecame very dulousented and forced out . The read thing the rembers was ucallary up in the Interesive care unit of the charpital. He evas original by his wife who had come home sometime clater. An italieral boload sample drown when the first assived at the charpital shows the following

Ng: 573 mm Hg , Os: 98 mm Hg , COD : HOMMHY & CO: O. HMMHY. a what was the creasion for his syncopal

charles Scholy Experienced on synopol (fainting) attack due to (6 footening). His use of a chorosens ifueled upoa heda without gooper sentilation read to the perodution of (0) which bounds to the oreducing on carry - wing capacity and couring hyperda-

W what is the treatment from his condition :-

Treatment for a pollowing :-

The following treatment for a polioning Phiolog diemously the Andi viduals from the source of corporare and administering things flow oxygen . this helps allminate to from the body, sand overfores the devels - In revere ocases elyperbasic Ca therapy may be considered to occilerate co climuration .

Sypoula and dymptoms the others experienced by Mr. charles . Childentify the Os dissociation curve and "the influenting fadors helps explain how while in this curve con affect of delivery to times.

IA Theory Assessment:

Velammal Medical College Hospital and Research Institute Madurai -09
Physiology Internal Assessment Test IX - CNS

Answer all Questions

Values:

: 3 hours · Time

 Marks : 100 : 08.05.24 & 09.05.24 Date

Date: 108.05.24 & 09.05.24

2 X 15 = 30

1. A 31-year-old male came to OPD with history of difficulty in walking and difficulty in speech. Tremors were observed when he attempted any voluntary activity but ceased during rest. Muscle tone was reduced. History of head injury in

an RTA 3 months before.

a. Identify the part of the brain that is affected in the above disorder. (1)

b. Draw and name the functional divisions of the affected part. (2)

c. Describe in detail the connections and functions of this part. (7+3)

d. Mention 4 other signs of this lesion. (2)

d. Nemous 4 other signs of the resion. (2)

In the clinical physiology laboratory of a medical college, a student observed exaggerated knee jerk while tapping the patellar tendon.

a. Name one clinical condition where deep reflexes are exaggerated. (1)

b. Draw the structure of muscle spindle and explain. (6)

c. Discuss with a flow chart the reflex pathway of knee jerk. (4)
 d. What is the significance of α-γ coordination? (2)

e. How is Jendrassik's maneuver done for i) Upper limbs ii) Lower limbs (2)

section II – Short answers

1. A 50 year old man was brought to the hospital with complaints of hemi anaesthesia and sharp, burning, electric shock like pain. In spite of the presof his limb, he gropes for it in the air. He had a history of stroke 6 months before. MRI findings confirmed thalamic syndrome.

a. Lesion of which blood vessel results in this condition? (1)

b. What is the reason behind hemianesthesia in this condition?

b. What is the reason behind hemianesthesia in this condition? (1) c. What are the functions of thalamus? (3)

c. what are the functions of maiamus? (3)

2. A 70 year old female came to the hospital with complaints of resting tremor.
Physical examination revealed cog wheel rigidity and bradykinesia.

a. What is the probable diagnosis?(0.5) Name 2 other features of this disease. (0.5)

b. How do you treat this condition? (1)

c. Draw the direct and indirect pathways of basal ganglia. (2) d. Reasons for chorea and athetosis. (1)

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Practical Assessment:

Station 1

- A 65-year-old male came with complaints of weakness in the limbs for the past few weeks. Examine the Motor system of the given subject.
- 2. A 50-year-old male patient has come for routine examination. Perform General examination. Examine the arterial pulse of the given subject.

Station 2

- A 60-year-old male with diabetes for 10 years has come for routine examination. Examine the Sensory system in the given subject.
- Record the Normal Stethogram of the given subject and demonstrate the Effect of Deglutition, Voluntary breath holding, Hyperventilation & Exercise on respiration.

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Velammal Medical College Hospital & Research Institute Department of Physiology Departmental Activity Report "Gamefied Learning - AETCOM" For 2023 – 2024 batch

A Experimental learning was conducted on the topic "AETCOM" for the first year MBBS students of **2023 - 2024 batch** on **19th January** 2024 (Friday, 10am to 1pm) in the Department of Physiology, Velammal Medical College building.

The interested students can opt in for the game and it tested their cognitive and motor skill prowess intoto. The game workflow was as below:

Student asked to choose from a lot of 1 to 10

Have to answer the question underneath the chosen lot

The students could opt out for a smaller reward with a nonexpensive chocolate as reward

Have to throw a TT ball into exactly the answer that is written on the cup

Winner was rewarded with an expensive chocolate

The students thoroughly enjoyed the session as it was a new format of learning and few were able to receive the top reward while others settled for reward of the first part of the game. Students were encouraged by this new initiative and were wanting for more of such ideas in the future.

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VELAMMAL MEDICAL COLLEGE AND RESEARCH INSTITUTE DEPARTMENT OF PHYSIOLOGY

DEPARTMENTAL ACTIVITY REPORT- ROLEPLAY – 2022 -2023 BATCH BASED ON AETCOM MODULE

11.12.2023

A Roleplay - based on the AETCOM module was organized for the first year MBBS students of batch 2023-2024 on 11.12.2023 from 11 am to 1 pm in the lecture hall 1 of Velammal medical college. Four teams were participated in this roleplay program. Each team consisted of 10 - 12 participants. The topics for the roleplay program was Depression (Communication), Infertility(Miscommunication), Cancer (Breaking the bad news) and Myocardial Infarction (2ND Opinion). The teams were selected based on lot system and topics were allotted to them randomly. The program started with the welcome address by Dr.Ajit Kumar, Assistant Professor, Department of physiology. All the 3 teams enacted their topics based on the AETCOM module- Doctor patient relationship, second opinion, how to communicate to the patient and their attenders, physician's role and responsibilities to the society and community etc., All these AETCOM components were highlighted along with case scenarios. The event was judged by Dr.Rabindranath, Professor and HOD of Psychiatry department. At the end of each team's performance, Dr. Rabindranath sir shared his thoughts about the enactment. Vote of thanks was delivered by Dr.S.Anu, Prof and HOD of department of Physiology. The program ended with announcing the results and Certificate of merit were awarded to the winners Dr. Durai Arasan, Assistant Professor and Dr. Noel Naveen Johnson, Senior and Dr.M.A. Hariviknesh, Postgraduate from department of Resident Physiology were fully involved in getting this program over the mark and was of RASU, M.D.D.A.,

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immense help throughout. Department attender **Mr. Kumaresan** and **Mr.Vinith** from Audio visuals department were of great help as well in attending to the sos technical complaints arising here and there during the program and sorting them out.

Best Male Performer - Monish, Guhan, Nishanth

Best Female Performer - Madhunisha

Best Team Performance – Team Myocardial Infarction (AETCOM Module- Second Opinion)

Role play team list

Team A - Depression

S.no	Name
1	Monish
2	Keerthana
3	Dinesh
4	Nethra
5	Janani
6	Kovarthini
7	Vidula
8	Kavya
9	Niranjana
10	Sushmitha
11	Amitha 🗠 🦙 🛵

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Team B – Cancer (Breaking the bad news)

S.no	Name	
1	Revanth G	
2	Abhilash A	
3	Haldane Mannie A	
4	Akshaya M	
5	Aishwarya T	
6	5 Atsay V	
7	Kavya S	
8	Devamithra R S	
9	Jhananitha	
10	Krudharrshna K.P	

Team C - Infertility (Miscommunication)

S.no	Name				
1	Madhunisha				
2	Shivapriya B				
3	Aashiq Ahmed J.M				
4	Johan Divyaraj				
5	Riyas Ahmed A				
6	Guhan K				
7	Shrenik	· 12			
8	Sri Rasha	7.39n			

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9	Allen Nobel	
10	Dayanidhi	
11	Mahilan	
12	Eben Desikan	

Team D – Myocardial Infarction (2ND Opinion)

S.no	Name	
1	Nishanth	
2	Irfan Mohammad	
3	Mohamad Ashique	
4	Vignesh	
5	Nikilan	
6	Vishwa	
7	Krithin Vijay	
8	Mohanambal	
9	Sakthi	
10	Vyashnavi	
11	Pooja Sree	
12	Pandikaneswari	

AETCOM - ROLEPLAY MARK SHEET

Team	Торіс	Acting (10)	Relevance to topic (10)	Coordination (10)	Powerpoint presentation (10)	Timing (10)	Total (50)	Standing
Team A	Depression	8	8	6	5	9 (136	9 4th

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Team B	Cancer	9	8	6	7	9	39	2 nd
Team C	Infertility	9	8	5	7	9	38	3 rd
Team D	MI	10	8	6	8	9	41	1 st

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Velammal Medical College and Hospital, Madurai Department of Physiology

Self Directed Learning Topics for 2023-2024 Batch

Department of Physiology had conducted about 10 Self Directed Learning topics for the First year MBBS students for the 2023-24 Batch. Self directed learning was employed so as to augment the concepts in a non-conventional way to didactic lectures.

SI No	Date and Day	Day & Time	Торіс	Faculty
1	29.09.2023 Friday	12 PM to 1 PM	Tissues	Dr.S.Anu
2	27.10.2023 Friday	9 AM to 10 AM	Lymph	All staff
3	08.12.2023 Friday	12 PM to 1 PM	ЕСНО	All staff
4	05.01.2024 Friday	9 AM to 10 AM	HIS bundle electrocardiogram	All staff
5	15.02.2024 Thursday	10 AM to 11 AM	Goldblatt Hypertension	All staff
6	30.05.2024 Thursday	9 AM to 10 AM	Visual Evoked Potential	All staff
7	14.06.2024 Friday	10 AM to 11 AM	Radioimmunoassay	All staff
8	17.06.2024 Monday	11 AM to 12 PM	Circumventricular Organ	All staff
9	18.06.2024 Tuesday	10 AM to 11 AM	Bronchial Asthma	All staff
10 2	21.06.2024 Friday	9 AM to 10 AM	Audiometry	All staff

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8. Formative Assessment of Self-Directed Learning
Note:
1. Formative Assessment of SDL sessions involves assessment of student level of learning through assessment of the synopsis and bibliography
2. The student shall submit the same at the end of the session. This can be both in the offline and online modes.

1	Topic	MARKS (out of 10 marks)	Initial of Facilitator
29/09/23	Tissues	10	88
27 10/23	Гамьн	10	88
08 12 23	ELECTROCARDICORAM	10	0
05 02 24	HIS BUNDLE ELECTRO	140	N
डि <u>०भ</u> 24	GIOLDBLATT HYPERTENSION	ю	8
14/06/24	BRONCHIAL ASTHUA	Jo	8
1406/24	RADITOIMMONOASSAY	10	8
17/05/20	CTRCUMUENTRICULAR ORGAN	10_	8
3406/24	VISUAL GLOKED PHYSIOLOGY AUDIOMETRY	10	8
21/06/24	, lossous Ika	10	M
12			

SDL Session 0	5: A STATE OF STATE O
Date 15 02 2024	Initial of Facilitator
TIME:	Washington Trans
Topic of SDL GOL	DBLATT HYPERTENSION
synopsis of the Study Goldblatt Hypestensions on Goldblatt Wiggers	m also known as Goldblatt Kidnes s phanomenon/Renovasculas Hynestown
it is a type of se renal autemy stemasis	ocondary hypertensian caused by
CAUSE: Norrowing E	Blockage ob tenal act that supply during to tenal actions stances due is (an) Fibranous culou dysplasia.
Flow Ranin	whining of rend an reduce blood to triding, thus Ja cells evaluate which acrivates RAAS [Ravin Argiotensin Boto System]
Dopplea's	Ultra sound, Magnetic Resonance Angling
	t of (nold bout hypertension aims to blood flow to the reiding by ACC inhibitor in II secuptor blockession aiwhics by stenosic inserver.
ond auto	The second secon
liography tps://pubred-ncbi.nim	Nih · gov/ 2692313/
diography the://pubmed-ncbi.nim	With gov/2652313/ 4: anglow 16ull 10.1152/ [Luol I] = 10th ed - Att. Jain of Physiology [Luol - II] = 3 raded - G. K. Pel

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Student seminar – General Physiology 29.09.2023

The Department of Physiology, Velammal medical college organized a student seminar on the topic 'General Physiology on 29.07.2023.

Topic	Students' names
Apoptosis	Meghana Gayathri
Edema	Aashik Madhesh
Na+ K+ ATPase	Sanjay Adarsh
i.v. fluids	Keerthana Niranjana
ORS	Varjitha Alamelu

Student seminar was conducted on 29.07.2023 from 11.00 am to 12.00 pm. Dr.M.Sangeetha, Professor, Department of General medicine judged the event. Students presented their topics in simple and elegant way. At the end of each presentation the judge asked questions regarding their presentations. Their marks were given based on their subject content, delivery, ppt presentation, time management and answering the questions from the judge.

- 1. Frist place Edema
- 2. Second place NA+ K+ ATPase
- 3. Third place ORS, Apoptosis
- 4. Best male presenter Madhesh
- 5. Best female presenter Varjitha

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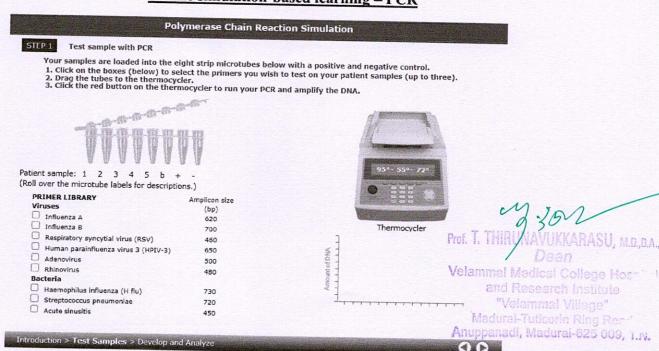
DEPARTMENT OF BIOCHEMISTRY

Simulation based learning

The Department of Biochemistry use innovative methods for enhanced learning. Using the online platform Foldit, students engage in simulation-based learning to grasp complex protein structures. Foldit merges scientific research with interactive participation, offering a revolutionary way to comprehend protein folding. Additionally, the department teaches first-year MBBS students about Polymerase Chain Reaction (PCR) through an online tutorial. Accessed

"https://www.whfreeman.com/BrainHoney/Resource/6716/SitebuilderUploads/Hillis2e/Stude nt%20Resources/Animated%20Tutorials/pol2e_at_0905_polymerase_chain_reaction_simulation.html#", this tutorial visually explains PCR's significance in molecular biology. By combining simulation-based protein learning and interactive PCR education, the Department of Biochemistry provides comprehensive, hands-on instruction that bridges theoretical knowledge with practical application.

Online simulation-based learning - PCR



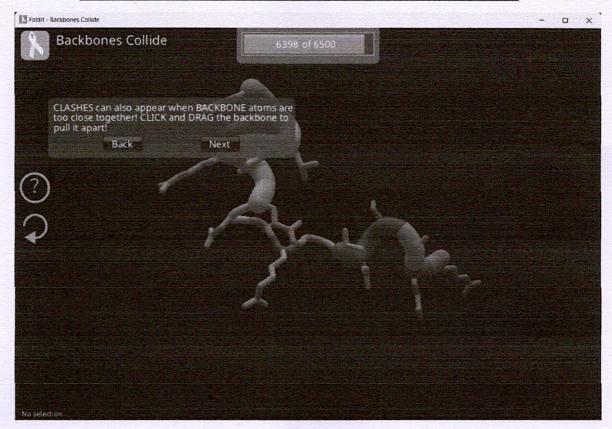
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DEPARTMENT OF BIOCHEMISTRY

Simulation based learning

Online simulation-based learning - Fold it for structure of protein



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