VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)

VINAYAKA MISSION'S KIRUPANANDA VARIYAR MEDICAL COLLEGE & HOSPITALS

VINAYAKA MISSION'S KIRUPANANDA VARIYAR MEDICAL COLLEGE & HOSPITALS,

SALEM - 636308.

Constituent Unit of Vinayaka Mission's Research Foundation
(Deemed to be University)

Academic Calendar

Phase I (2020 – 2021)

Syllabus & Curriculum

Website : www.vmkvmc.edu.in

VINAYAKA MISSION'S

KIRUPANANDA VARIYAR MEDICAL COLLEGE & HOSPITALS

SALEM – 636308.

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Academic Calendar

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Phase I (2020 – 2021)

Website : www.vmkvmc.edu.in

HISTORY OF THE COLLEGE

Vinayaka Mission's Kirupananda Variyar Medical College is located in Salem, Tamilnadu and strives for achieving academic excellence. It was started in the year 1995-96, and was affiliated to the Tamilnadu Dr. MGR Medical University. In 2005-06 it became a constituent unit of Vinayaka Mission's Research Foundation (Deemed to be University) (VMRF-DU), Salem, Tamilnadu. Eligible students are admitted by counseling after NEET examination.

The Institution has a limpid vision of providing service to the humanity at large, by making available, the best form of health care possible in the world to the local community.

FACILITIES

The unitary campus houses a teaching hospital and hostels with adequate space for future expansion.

INFRASTRUCTURE : The infrastructure is adequate and is designed to create a learning atmosphere. All the departments specified under the MCI are available as per norms. They are spacious and well furnished. Information Communication Technology (ICT) enabled air-conditioned lecture halls with the necessary equipments and latest teaching aids are available. The pre and para-clinical departments have updated laboratories which periodically undertake Internal and External Quality Assurance evaluations.

The campus houses separate blocks for the college, hospitals and hostels. College blocks accommodate pre & para-clinical departments with Gallery type A/C lecture halls with audiovisual aids like LCD, OHP, etc., and well equipped labs, seminar halls & demonstration rooms in each department.

PRECLINICAL DEPARTMENTS	**PARA-CLINICAL DEPARTMENTS**
Anatomy	Pathology
Physiology	Microbiology
Biochemistry	Pharmacology
	Forensic Medicine

HOSPITAL

The **650** bedded hospital with world class facilities with all innovative and sophisticated state-of-the-art equipment and technology is available. Highly qualified and experienced health personnel manage the hospital.

The student is tuned to gain indepth knowledge in medical subjects through the use of appropriate and innovative participatory teaching techniques using the latest tools and inputs.

CLINICAL DEPARTMENTS

General Surgery	General Medicine
Orthopaedics	Paediatrics
Ophthalmology	Chest & TB
ENT	Skin & STD
Obstetrics & Gynaecology	Psychiatry
Anaesthesia	Radiology
Community Medicine	Emergency Medicine

SUPER-SPECIALTY DEPARTMENTS

Cardiothoracic Surgery	Cardiology
Neurosurgery	Neurology
Surgical Oncology	Urology
Paediatric Surgery	Nephrology
Plastic Surgery	Neonatology
	Oncology

OTHER FACILITIES

- A/C auditorium with a seating capacity of 750
- Separate common rooms for boys & girls.
- Printing, Scanning & Photocopying facilities are available in the library. Question bank is also available.
- There are play grounds in the campus for hockey, foot-ball, volley-ball, cricket, badminton, throw ball, tennikoit and running track. Indoor games facility for TT & carrom are available. Gym facilities are available for the students.
- The campus is WiFi enabled.
- **2** cafeterias are available in the campus which provide the students with tasty & hygienic multicuisine food (Indian, Chinese etc.).
- A stationery and novelty store in the hospital and in hostel premises provide all the necessary items to students and staff.

LIBRARY: An upgraded library with the latest collections of books and journals in addition to internet facilities is available.

Central library with 7000 titles is open from 8 am to 12 midnight. Separate reference, journals and Internet sections are present & easily accessible to Students & faculty.

MENTORSHIP: Well qualified and dedicated faculty, facilitate learning and address the issues of students through a Mentorship Programme. Innovative evaluation methods including formative and summative evaluation address the components of student assessment in a transparent manner.

RESEARCH: The Institution provides a good research ambience for conduct of research studies and quality health surveys. National (ICMR) and International (WHO) collaborative studies are conducted by the faculty members as well as a few medical students. The faculty and students are deputed frequently to Scientific Conferences and Workshops.

POSTGRADUATE PROGRAMMES in Ophthalmology, ENT, General Medicine, Psychiatry, Radiology, Skin and STD, Paediatrics, General Surgery, Orthopedics, Anaesthesiology, Obstetrics and Gynaecology, Emergency Medicine, Transfusion Medicine, Microbiology, Pharmacology, Biochemistry, Physiology, and Anatomy are being conducted.

EXTRACURRICULAR ACTIVITIES: Facilities are also available for extra curricular activities (play grounds, basket ball courts, sports kits for both outdoor and indoor games and well equipped gymnasium).

STUDENT SUPPORT PROGRAMMES like Seminars, Symposia, CME, Small Group Teaching, Mentorship and Counseling are provided. The Alumni Association of the Institution is strong and helps the students to upgrade their knowledge with scientific updates. Meritorious students get recognition in the form of awards and medals.

SPORTS & GAMES: Intramural, intercollegiate and interuniversity programs provide an opportunity for physical fitness.

The Vinayaka Missions Institutions having reached the path of academic excellence will continue to strive for global sustenance.

PLEDGE

We, the students of Vinayaka Mission's Kirupananda Variyar Medical College, Salem [Vinayaka Mission's Research Foundation (Deemed to be University)] pledge that

- I, _____ (name), being admitted to the study of medicine – the art of healing, shall dedicate myself totally to uphold and contribute productively to the nobility of the profession.
- I shall use my education & knowledge to acquire the ability to look into the present and future health needs of our country as well as that of the world.
- I shall strengthen the core values of our national ethos, healthy living, liberty, unity in diversity; truth and common good in all my endeavours.
- I shall treat my parents, peers, teachers and elders with great respect.
- I shall show empathy and concern to the sick & patients and dotards & down trodden people.
- I shall consider all men as equal and "the plurality and multi-ethnicity" woven India's secular fabric, shall become my "preferred priority" while interacting with others.
- I shall remember the great leaders of our nation, abide by their teaching and steadfastly work hard towards our Mission's objectives to build a stronger nation through medical education.

THE COLLEGE ANTHEM

Vinayaka thy name is the glory
Vinayaka thy saga divine
Vinayaka a star in the sky
A ray of hope through troubled times

Vinayaka thy legacy unfathomed
Vinayaka thy medicos shine
Vinayakans they'll be there through turbid times
Duty to them is blessing divine

Vinayakans have the heart of the winner
They stand united together as one
They are the winners under the sun
Winners under the sun

RULES AND REGULATIONS OF THE COLLEGE

I. GENERAL :

a) All students must wear a clean, doctor's white overcoat with half sleeve & identity card in the premises of the College & Hospital.

b) No meeting or demonstration should be held in the premises of College / Hospital and Hostels.

c) Ragging in any form is strictly forbidden within or outside the College and Hospital premises.

d) Students are forbidden to take part in Political Agitations, Strikes and Demonstrations.

e) Students are required to observe discipline at all times in the college and not to make any noise when they go from one class room to another class room.

f) Students must be punctual to lecture classes & practicals / hospital clinics.

II. COLLEGE RULES :

a. **ATTENDANCE:** Students should be punctual to the hospital and college and should have a minimum attendance of 75% in theory and 80% in practical in each subject to appear for University Examination. Students who lack the minimum prescribed attendance in any one subject will not be permitted to write the examination. However, the Vice-Chancellor has the discretionary power to allow a condonation of shortage of attendance upto a maximum of 10% in the prescribed minimum attendance for admission to an examination. A candidate lacking in attendance should submit an application in the prescribed form, endorsed by the Head of the Department / the Head of the Institution to the Vice Chancellor for approval for admission to the examination. Every student must have cleared all the arrears of fees in Hostel and College and must get a "No Due" certificate from the warden and Deputy Dean before submitting the application for University Examination.

b. **LEAVE :** Students should avail leave only with the previous sanction of the Head of the Department. When leave is availed for unforeseen causes the application must be made soon after availing the leave. Leave letter on medical grounds should always accompany a medical

certificate by a medical officer. The copy of the leave letter will be sent to the parent for endorsement if needed.

c. **DAMAGES:** Students should pay for any breakage / loss in the laboratories.
d. **FEES :** The Examination application of students will not be forwarded to the University if they have any dues regard to Tuition Fees, Special Fees and Hostel Fees or any other arrears.
e. **EXAMS :** In each department 3 Internal Assessment examinations will be conducted out of which the best of 2 Internal Assessment marks will be considered for University Examinations.
f. **RECORDS :** Practical record note books should be completed & submitted in time.
g. **CELL PHONE** usage is prohibited during class hours (theory/practicals). If cell phones were to be found being used during class hours, they would be confiscated.

III. DRESS CODE :

1. Formal wear for both girls and boys.
2. Girls should tie their hair up & wear cut shoes; avoid bracelets, finger rings, anklets & flowers.
3. Nails should be trimmed & not painted.
4. Boys should wear formal clothes (avoid fluorescent and flashy colored pants/ Jeans/Shorts/T-shirts) with black or brown shoes. Hair should be trimmed & boys should be clean shaven (face).
5. Half sleeved white coat should be worn inside the college campus.

IV. ANTI RAGGING REGULATIONS :

INTRODUCTION

This Regulation has been brought forth by the University Grants Commission in consultation with the Councils to prohibit, prevent and eliminate the scourge of ragging.

UGC REGULATIONS ON CURBING THE MENACE OF RAGGING IN HIGHER EDUCATIONAL INSTITUTIONS, 2009.
(under Section 26 (1)(g) of the University Grants Commission Act, 1956)

OBJECTIVES

To eliminate the Attitude of Ragging, the following understanding of the term “Ragging” is of prime importance. Ragging is inclusive of any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student or indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student, in all higher education institutions in the country and thereby, to provide for the healthy development, physically and psychologically, of all students.

WHAT CONSTITUTES RAGGING

Ragging constitutes one or more of any of the following acts carried out in any area inside or outside the College Campus.

A. Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student;

B. Indulging in rowdy or indiscipline activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student;

C. Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student;

D. Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;

E. Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.

F. Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;

G. Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;

H. Any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student ;

I. Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

ADMINISTRATIVE ACTION IN THE EVENT OF RAGGING

Anyone found guilty of ragging and/or abetting ragging, whether actively or passively, or being a part of a conspiracy to promote ragging, is liable to be punished in accordance with these Regulations as well as under the provisions of any penal law for the time being in force.

The institution shall punish a student found guilty of ragging after following the procedure and in the manner prescribed herein under:

A. The Anti-Ragging Committee of the institution shall take an appropriate decision, in regard to punishment or otherwise, depending on the facts of each incident of ragging and nature and gravity of the incident of ragging established in the recommendations of the Anti-Ragging Squad.

B. The Anti-Ragging Committee may, depending on the nature and gravity of the guilt established by the Anti-Ragging Squad, award, to those found guilty, one or more of the following punishments :-

   i. Suspension from attending classes and academic privileges.

ii. Withholding/ withdrawing scholarship/ fellowship and other benefits.
iii. Debarring from appearing in any test/ examination or other evaluation process.
iv. Withholding results.
v. Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.
vi. Suspension/ expulsion from the hostel.
vii. Cancellation of admission.
viii. Rustication from the institution for period ranging from one to four semesters.
ix. Expulsion from the institution and consequent debarring from admission to any other institution for a specified period.

Mobile inspection squads have been formed to carry out surprise checks in hostels and transport.

Website: https://antiragging.in

LIBRARY RULES & REGULATIONS

1. Working Hours:

a. The library is kept open from **8.00** a.m. to 12 midnight on all working days.

2. Membership:

1. The Library is open to all students and members of the staff of the college and hospitals.

2. Outsiders and students who have left the college, dismissed or under suspension cannot have the privilege of using the library except with the special permission of the Dean.

3. Issue and Return of books:

No student will be allowed to take books or journals outside the library.

4. Dos & Don'ts:

1. Students must use only the allotted space for studying
2. Strict silence must be maintained inside the library
3. Students wishing to use the computer terminals should obtain permission of the librarian. Use of computers must be for academic purpose only and not for entertainment.

5. Photocopier Facility:

Students can use the photocopying facility for the required academic materials after permission and payment to the Librarian.

6. Mobile phones:

Use of mobile phones in the library is not permitted.

Vinayaka Mission's Research Foundation (Deemed to be University)

Administrators

- **CHANCELLOR** : Dr. A.S. Ganesan
- **PRO-CHANCELLOR** : Dato' Sri. Dr. S. Sharavanan
- **VICE PRESIDENTS** : Mr. J. S. Sathish Kumar
  Mr. N. V. Chandrasekar
- **DIRECTORS** : Mr. K. Jaganathan
  Mr. N. Ramaswamy
- **VICE CHANCELLOR** : Prof. Dr. P.K. Sudhir
- **PRO-VICE CHANCELLOR** : Prof. Dr. P.S. Manoharan
- **REGISTRAR** : Prof. Dr. B. Jaykar
- **DIRECTOR (ACADEMICS)** : Prof. Dr. J. Sabarinathan
- **CONTROLLER OF EXAMINATIONS** : Dr. C.L. Prabhavathi
- **DIRECTOR (STUDENTS WELFARE)** : Prof. Dr. R.S. Shanmuga Sundaram

Hospital & College Administrators

➢ **DEAN**	:	Prof. Dr. Milind V. Bhutkar, M.D., MNAMS,
➢ **MEDICAL SUPERINTENDENT**	:	Prof. Dr. G. Kannan, M.D.,
➢ **DIRECTOR, HOSPITAL DEVELOPMENT COMMITTEE**	:	Prof. Dr. K. Ezhil Vendhan, M.S.,
➢ **DEPUTY DEAN**	:	Prof. Dr. Deepti Shastri, M.S., MNAMS,
➢ **DEPUTY MEDICAL SUPERINTENDENT**	:	Prof. Dr. E.M.J. Karthikeyan, M.S.,
➢ **DEPUTY MEDICAL SUPERINTENDENT**	:	Prof. Dr. S. Senthil Priya, M.D.,
➢ **LIBRARIAN**	:	Mr. R. Kathirvel, MSc., MLIS, MPhil, PhD.,
➢ **DEPUTY WARDEN (MALE)**	:	Mr. S. Syed Liyakath Ali, M.Sc.(Med. Phy)
➢ **DEPUTY WARDEN (FEMALE)**	:	Dr. Reena Rajan, MSc., (Med Micro), Ph.D.,

Vinayaka Mission's Kirupananda Variyar Medical College & Hospitals,
Seeragapadi, Salem - 636308.

VINAYAKA MISSION'S RESEARCH FOUNDATION (Deemed to be University)

ANTI –RAGGING COMMITTEE

Academic year 2020-2021

S.No	Name	Designation	Mobile No	E-Mail
1.	**Chairperson**			
	Dr. Milind V. Bhutkar	DEAN	9443227878	dean.vmkvmc@vmu.edu.in
2.	**Members**			
	Mr. Rajini Kanth	Civil (Advocate)	9360838477	-
3.	**Police Administration (SP / Inspector)**			
	Mr. Uma Shankar, IPS	Rural DSP	9498167667	-
	Mr. Kulasekaran	Rural – Inspector of Police	9498167900	-
	Mr. Thangavelu	Sub - Inspector of Police (Attayampatti)	9498171885	-
4.	Mr. Senthil	Local Media	9498100980	-
5.	**Non –Govt Organization**			
	Mr. Yuvaraj	Blessing Youth Mission	9943756835	yuvaraj.bym@gmail.com
	Mrs. Devika	Bharathiyar Malaival Makkal Nalvalvu Sangam	9787088088	devikafaith@gmail.com
6	**Representative of Faculties**			
	Dr. G. Kannan	Convenor, Medical Superintendent	9843337407	drkannang@yahoo.com
	Dr. Deepti Shastri	Deputy Dean Professor, Dept. of Anatomy	9842724197	deepthirahul@yahoo.co.in
	Dr. K. Ezhil Vendhan	Director, Hospital Development Committee Prof.& HOD, Dept of Ophthalmology	9360838468	hospitaleye@gmail.com
	Dr. J. Sridhar	Prof .& HOD, Dept of Surgery	9843096700	drsridhar2002@yahoo.com
7	**Youth activities (Red Cross, NSS & Red Ribbon Club)**			
	Dr.S.Rajaram	Professor, Dept of Pharmacology & Red Cross-co-ordinator	9443086300	drrjrm@gmail.com
	Dr. R. Shankar	Professor of Community Medicine & Red Ribbon Club	9655368498	shnkr_radhakrishnan@yahoo.com
	Dr. Gowri Sankar R.	Asso. Professor of Pathology & NSS-co-ordinator	9894957670	gowrishines@gmail.com

S.No	Name	Designation	Mobile No	E-Mail
	Dr. R. Sudha	Mentorship Programme Co-ordinator, I year & Asso. Professor, Dept of Biochemistry	9443370319	shanshan1718@gmail.com
	Dr. Roopmala M.	Mentorship Programme Co-ordinator, II year & Asso. Professor, Dept of Pathology	9080889277	rubynandaarya@gmail.com
	Dr. R. Shankar	Academic Co-ordinator, Final MBBS Part I & Professor, Dept of Community Medicine	9655368498	shnkr_radhakrishnan@yahoo.com
	Dr. Senthil Priya S.	Academic Co-ordinator, Final MBBS Part II & Professor, Dept of Obs. & Gyn.	8300142244	senthilpriya2000@gmail.com
	Dr. Reena Rajan	Deputy Warden, Girls Hostel	9894990961	reenarajan83@gmail.com
	Mr. S. Syed Liyakath Ali	Deputy Warden Boys Hostel	9944813369	s.syedliyakathali@gmail.com
8	**Representative of parents (I MBBS)**			
	Dr. Pugalagiri		9843053736	drpugal@vadamalayan.org
9	**Representative of Freshers**			
	Mr. Nithin T.	I MBBS (2020 – 2021)	8072147447	nithintamilselvan19@gmail.com
	Ms. Prithi Nivethitha	I MBBS (2020 – 2021)	8296287562	prithinivethitha@gmail.com
10	**Representative of Students (Senior)**			
	Priyadarshini Inkarsal	I MBBS (2019 – 2020)	8291227388	inkarsal.p@gmail.com
	Aswin Kumar A.	I MBBS (2019 – 2020)	9360705946	aswinkumarcpt666@gmail.com
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	Keerthana K.	CRRI	8754837700	keerthanakumar03@gmail.com
11	**Non-teaching Staff**			
	Mr. K. Arun Kumar	Chief Computer Programmer	9443848613	karunhari@gmail.com
	Mr. P. Dhanasekaran	Office Superintendent	9942406667	-

Vinayaka Mission's
Kirupananda Variyar Medical College & Hospitals,
Seeragapadi, Salem - 636308.

VINAYAKA MISSION'S RESEARCH FOUNDATION
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ANTI –RAGGING SQUAD (2020 – 2021)

S. No.	Name	Designation	Mobile No	E-Mail
1	Dr. Milind V. Bhutkar	Dean	7639552776	dean.vmkvmc@vmu.edu.in
2	Dr. G. Kannan	Medical Superintendent	9843337407	drkannang@yahoo.com
3	Dr. K. Ezhil Vendhan	Director, Hospital Development Committee	9360838468	hospitaleye@gmail.com
4	Dr. Deepti Shastri	Deputy Dean Professor, Dept of Anatomy	9842724197	deepthirahul@yahoo.co.in
5	Dr. Karthikeyan E.M.J.	Deputy Medical Superintendent Professor, Dept of Surgery	9842256564	emjkarthik@yahoo.co.in
6	Dr. S. Senthil Priya	Deputy Medical Superintendent Professor, Dept of Obs. & Gyn.	8300142244	senthilpriya2000@gmail.com
7	Dr. E. Manivannan	Prof. & HOD, Dept. of Pharmacology	9790644978	manipoo73@gmail.com
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14	Dr. Sheerin Fathima	Deputy Warden – Girls Hostel	9486170816	dr.assf@gmail.com
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17	Dr. Reena Rajan	Deputy Warden – Kirupa Girls hostel	9894990961	reenarajan83@gmail.com
18		Assistant Warden Boys hostel		
19	Ms. Geetha	Assistant Warden – Girls hostel	9019428773	

VINAYAKA MISSION'S
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VINAYAKA MISSION'S RESEARCH FOUNDATION

(Deemed to be University)

Internal Complaints Committee 2020-2021

1.	Dr. V. Sivasankari, Professor, Dept. of Pharmacology	Presiding Officer & Convener	9443515035 drvsivasankari@gmail.com
2.	Dr. S. Senthil Priya, Professor, Dept. of Obs. & Gyn.	Faculty	8300142244 senthilpriya2000@gmail.com
3.	Dr. E.M.J. Karthikeyan, Professor, Dept. of General Surgery	Faculty	9842256564 emjkarthik@yahoo.co.in
4.	Mr. P. Dhanasekaran Office Superintendent	Member	9942406667
5.	Mrs. S. Sudha Attender	Member	9688906311
6.	Samyuktha B.S. UG Student	Final year MBBS	samsaro2322@gmail.com 8220652520
7.	Dr. Jenny. V Paediatrics - PG Student	Member	9944733840 jennyvk29494@gmail.com
8.	Mrs. Pratima M. Bhutkar Ph.D. Scholar	Member	8903351576 pratimab13@rediffmail.com
9.	Mrs. Ruby Thiyagarajan	NGO Representative	9894999574 ywcasalem@rediffmail.com ywcasalem7@gmail.com

MEDICAL EDUCATION UNIT CONSTITUTION

Sr. No	Name	Designation & Department	Mobile	E-mail
1	Dr. Milind V. Bhutkar	Dean & Professor, Department of Physiology (Officer In-charge)	7639552776	dr_mvbhutkar@rediffmail.com
2.	Dr. K.C. Shanthi	MEU Coordinator & Professor & Head, Department of Anatomy	9443370319	shanshan1718@gmail.com
3.	Dr. Deepti Shastri	Deputy Dean and Professor, Department of Anatomy	9842724197	deeptishastrimukherjee@gmail.com
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7.	Dr. R. Shanmugasundaram	Professor, Department of General Medicine (Medicine & allied disciplines)	9043855853	drsambu123@yahoo.in drsambu123@gmail.com
8.	Dr. Karthikeyan E.M.J.	Professor, Department of General Surgery (Surgery & allied disciplines)	9842256564	emjkarthik@yahoo.co.in emjkarthik@gmail.com
9.	Dr. V. Suganthi	Professor & Head, Department of Physiology	9443908855, 8825422128	vsuganthiarasan@gmail.com
10.	Dr. E. Manivannan	Professor & Head, Department of Pharmacology	9790644978	manipoo73@gmail.com

COURSE DESCRIPTION

Every MBBS student shall undergo a period of certified study extending over 4½ academic years followed by one year of compulsory Rotatory internship.
The period of 4½ years is divided into three phases as follows:

I.1. Phase I (I MBBS):

1. Phase I (I MBBS) (14 months) consisting of Foundation Course and Preclinical subjects (Human Anatomy, Physiology, Bio-Chemistry) & introduction to Community Medicine including humanities.

I.2. Phase II (II MBBS):

Phase II (II MBBS) (10 months) consisting of Para-clinical / Clinical subjects.

During this phase teaching of Para-clinical and Clinical subjects shall be done concurrently.

The Para-clinical subjects shall consist of Microbiology, Pathology, Pharmacology and part of Community Medicine.

The clinical subjects shall consist of all those detailed below in Phase III.

I.3. Phase III (III MBBS):

Part I: At the end of 11 months of study in Phase III the candidate shall be examined in four subjects namely Forensic Medicine including Toxicology, Ophthalmology, Otorhinolaryngology and Community Medicine in the Part I examination of III M.B.B.S.

Part II: At the end of 13 months of study in Phase III the candidate shall be examined in four subjects namely Medicine, Surgery, Obstetrics and Gynaecology and Pediatrics in the Part II examination of III M.B.B.S.

I. MBBS Phase Wise Time Distribution & Examination Schedule

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2020	------	----------	------	-----	------	------	------	------	-----	-----	------	------
2021	------	I MBBS										
2022	Exam	II MBBS										Exam
2023	III MBBS Part I											Exam
2024	III MBBS Part II											
2025		Exam/PG NExT?	CRRI									
2026			Univ. NExT?				Start of PG course, Time not yet fixed					

II . Record Note books / Log Books :

Every student must maintain a record of the Practical / Clinical work assigned to him / her in the record note books.

Students should also maintained log books for :

1. Foundation Course
2. Academic activities
3. AETCOM

These shall be submitted periodically to the respective Professors. At the end of the course the Practical / Clinical case record note books shall be submitted to the Heads of the departments who shall evaluate and include the marks in the Internal assessment.

At the time of Practical / Clinical examination each candidate shall submit to the Examiner his / her Clinical / Laboratory note books duly certified by the Head of the department as a bonafide record of the work done by the candidate.

In respect of failed candidates the marks awarded for records at the first attempt may be carried over to the next examination attempt. If a candidate desires he/she may be permitted to improve on the performance by submission of fresh record note books.

Integration: Each of the departments shall provide integrated teaching with pre-clinical, para-clinical and clinical departments to expose the students to the full range of disciplines relevant to each area of study. Problem Based Learning (PBL) shall be emphasized.

III. Internal Assessment:

a. A minimum of three written examinations shall be conducted in each subject during an academic year and the average marks of the Two best performances shall be taken into consideration for the award of internal assessment marks. Assignments completed by candidates as home work or vacation work may also be considered.
b. A minimum of three Practical / Clinical examinations shall be conducted in each subject during an academic year and the average marks of the two best performances shall be taken into consideration for the award of internal assessment marks. Mark awarded for maintenance of records & log books should be included in the internal assessment of practical / clinical performance.
c. A failed candidate in any subject shall be provided an opportunity to improve his / her internal assessment marks by conducting retests in theory and practical separately and the average shall be considered for improvement.
d. The internal assessment marks awarded both in Written and Practical / Clinical separately shall be submitted to the University endorsed by the Head of the institution atleast fifteen days prior to the commencement of the theory examinations.
e. A candidate should obtain a Minimum of 50 % of marks in internal assessment in a subject to be permitted to appear for the University examination in that subject. For this purpose the candidate has to obtain 40 % of marks in Theory and Practical / Clinical separately.

IV. Competitive Prize Exams:

Students who pass all the internal assessment examinations with more than 60% marks are eligible to appear for competitive prize exams in the subjects concerned conducted by the respective departments.

V. High achievers in each subject are encouraged and trained to participate in scientific conferences, dissertation competitions and quizzes.

VI. University Examinations

1. University exam marking pattern

Phase of Course	Written – Theory Total	Practicals / Orals / Clinicals	Pass Criteria
First Professional			**Internal Assessment** 50% combined in theory and practical (not less than 40% in each) for eligibility for appearing for University Examinations **University Examination** Mandatory 50% marks in theory and practical (practical =Practical/Clinical +Viva)(theory =theory paper(s) only) Internal assessment marks are not to be added to marks of the University examinations and should be shown separately in the grade card.
Human Anatomy – 2 papers	200	100	
Physiology- 2 papers	200	100	
Biochemistry – 2 papers	200	100	
Second Professional			
Pharmacology- 2 papers	200	100	
Pathology – 2 papers	200	100	
Microbiology – 2 papers	200	100	
Third Professional Part -I			
Forensic Medicine & Toxicology – 1 paper	100	100	
Ophthalmology -1 paper	100	100	
Otorhinolaryngology – 1 paper	100	100	
Community Medicine – 2 papers	200	100	
Third Professional Part -II			
General Medicine – 2 papers	200	200	
General Surgery – 2 papers	200	200	
Pediatrics – 1 paper	100	100	
Obstetrics & Gynaecology -2 papers	200	200	

2. Exemption in passed subjects:

Candidates who fail in an examination but obtain pass mark in any subject shall be exempted from re-examination in that subject.

3. Criteria for Progression to Phase II :

1. Examination pattern will include Theory examination, Practical / Clinical examination and Viva / Oral examination.
2. There shall be one main examination in an academic year and a supplementary to be held not later than 90 days, after the declaration of the results of the main examination.
3. Passing in First MBBS Professional examination is compulsory before proceeding to Phase II training.

4. A maximum number of four permissible attempts would be available to clear the first Professional University examination, whereby the first Professional course will have to be cleared within 4 years of admission to the said course. Partial attendance at any University examination shall be counted as an availed attempt.
5. A learner shall not be entitled to graduate after 10 years of his/her joining of the first part of the MBBS course.

1. Classification of successful candidates

a) A successful candidate securing 75 % or above of the marks in the aggregate in any subject in the first appearance will be declared to have passed the examination in that subject with distinction.
b) First class may be awarded to such candidates who have passed all the subjects at the first appearance and obtained 60 % of marks and above in the aggregate of all the subjects he/she had appeared in the particular phase of the MBBS course.
c) Candidates who have passed all the subjects at the first appearance and obtained 75 % of marks and above in all the subjects he/she had appeared shall be awarded first class with distinction.
d) All other successful candidates shall be declared to have passed in second class.

2. Attendance required for Admission to Examination:

a) No candidate shall be permitted to any one of the parts of MBBS Examinations unless he / she has attended the course in the subject for the prescribed period in an affiliated institution recognised by this University and produces the necessary certificate of study, attendance and progress from the Head of the Institution.
b) A candidate is required to put in minimum attendance of 75% in theory and 80% in practical in each subject before admission to the examination.
c) A candidate lacking in the prescribed attendance and progress in any one subject in the first appearance shall be denied admission to the entire examinations.
d) Failed candidates who are not promoted to the next phase of study are required to put in minimum attendance of 75% in theory and 80% in practical during the extended period of study before appearing for the next examination.

VII. Awards:

a) Certificates of Merit are awarded to the students securing the overall highest marks in all the internal assessment exams.
b) Prizes are awarded to students scoring the highest marks in the competitive prize exams conducted by various departments.
c) Proficiency certificates are awarded to the students securing the highest marks in each subject in the University examinations.
d) The student securing the highest overall marks throughout the course of MBBS study (regular students) in the University exams - institution as well as university ranking, is presented with the Dr. A. Shanmugasundaram - The Founder Chancellor, VMRF(DU)'s, Gold Medal for the BEST OUTGOING STUDENT award.

VIII. Working Days:

Each academic year consists of approximately 240 teaching days. Each day comprises of 8 working hours including an hour's interval for lunch. The teaching hours are divided between didactic lectures, practicals, demonstrations, seminars, symposia, Small Group Teaching (SGT), Self Directed Learning (SDL), Early Clinical Exposure (ECE), Integrated Learning (IGL) in various subjects and AETCOM.

Parents-Teachers Virtual Communication :

Parents are encouraged to communicate with the faculty regarding the progress of their wards. Parents-Teachers Meetings are arranged by the departments including Face-To –Face as well as by virtual communication.

Clinical Society Meetings:

These are held regularly once a month and interesting clinical cases are presented and discussed on intriguing aspects of the clinical presentation, diagnosis and management of the patients.

Medical Audit Meetings are held regularly as an internal quality assurance process to improve patient care and outcomes.

Rural Health Centre:

The VMKV Medical College & Hospitals runs a Rural Health Centre by the Community Medicine Department. Two Primary Health Centres are also attached to the institution.

I MBBS Teaching Hours Distribution is as follows :

Subjects	Lectures (hours)	Small Group Teaching/ Tutorials/ Integrated learning/ Practical (hours)	Self directed learning (hours)	Total (hours)
Anatomy	220	415	40	675
Physiology	160	310	25	495
Biochemistry	80	150	20	250
Early Clinical Exposure		90	0	90
Community Medicine	20	27	5	52
AETCOM		48	0	34
Sports and extracurricular activities				60
Formative assessment and Term examinations				80
Total				**1736**

Time Table - I MBBS (2020 – 2021) BATCH [February 2021- January 2022]

Day	8.00-9.00 am	9.00-10.00 am	10.00-10.15 am	10.15-11.15 am	11.15 am - 12.15 pm	12.15- 1.15 pm	1.15-2.00 pm	2.00 - 4.00 pm	4.00 - 5.00 pm
Monday	Anatomy (Theory)	Physiology (Theory)	TEA BREAK	Physiology (Tutorial)	Anatomy (* FA / Tutorial / SGT)	Anatomy (Dissection)	LUNCH BREAK	Physiology Practical Batch-(A+B+C) - from March 2021 onwards	
Tuesday	Biochemistry (Theory)	# Physiology (SDL/SGT)		Anatomy (Theory)	Anatomy (Dissection)	Anatomy (Dissection)		Anatomy Practical (Batch-A) Physiology Practical(Batch-B) Biochemistry Practical (Batch-C)	Anatomy (SGT) from March 2021 onwards
Wednesday	*Physiology (Theory / FA& Feedback)	Biochemistry (Theory)		Physiology Tutorial / IGL	Anatomy (Theory)	Anatomy (Dissection)		Anatomy Practical (Batch-B) Physiology Practical (Batch-C) Biochemistry Practical (Batch-A)	Anatomy (SGT) from March 2021 onwards
Thursday	Physiology (Theory)	Biochemistry (*FA /Tutorial / SDL)		Community Medicine (Theory / Tutorial / IGL)	Anatomy (Theory)	Anatomy (SDL)		Anatomy Practical (Batch-C) Physiology Practical (Batch-A) Biochemistry Practical (Batch-B)	Sports
Friday	Anatomy (Theory)	Physiology (Theory)		Community Medicine (SDL/ SGT) Biochemistry (SGT / IGL)	Anatomy (Dissection)	Anatomy (Dissection)		*** Anatomy (IGL) / Physiology / Biochemistry-SGT @ Mentor Programs	♥ Extra-curricular Activities
				** Biochemistry ECE					
Saturday	Anatomy (Theory)	Physiology (SGT)		I Saturday ECE Anatomy III Saturday - ECE Physiology II & IV Saturday - Holiday				AETCOM	-

* 4th week- FA & feedback; ** 2nd week - Biochemistry ECE

*** 1st Biochemistry SGT, 2nd week Anatomy IGL, 4th week Physiology SGT. @ 3rd week Mentor ship Programs

\# 2nd and 4th week – SDL; 1st and 3rd week – SGT

⅄ February 2021 to April 2021- Community Medicine: SGT/ SDL

⅄⅄ May 2021 to December 2021- Biochemistry: SGT/ IGL

♥ 1st week - Central Library, 2nd, 3rd & 4th week club activity

FA: Formative assessment
ECE: Early Clinical Exposure
SDL: Self Directed Learning
SGT: Small Group Teaching
IGL: Integrated Learning
AETCOM: Attitude, Ethics & Communication

VINAYAKA MISSION'S KIRUPANANDA VARIYAR MEDICAL COLLEGE & HOSPITAL, SALEM

Exam pattern

MBBS Degree Exam pattern for all departments:

Theory Paper I	**-**	**100 Marks**
Theory Paper II	**-**	**100 Marks**
Practicals	**-**	**80 Marks**
Viva	**-**	**20 Marks**
		300 Marks

Theory Question pattern - 100 Marks

Type of question	Numbers X Marks	Total marks
Section – A		
Multiple Choice Questions	**20 X 1**	**20**
Section - B		
Long Answer Questions	**2 X 15**	**30**
Short Answer Questions	**6 X 5**	**30**
Brief Answer Questions	**10 X 2**	**20**
Total		**100**

Eligibility to appear for university exams

Internal Assessment (Theory + Practicals)	50% [Theory - minimum 40% Practicals- minimum 40%]

Criteria for pass in University exams

Theory	50% (Each Paper minimum 40%)
Practicals + Viva	50%

Academic Plan

I MBBS (2021 – 2022 batch)		
MODULE	**NAME OF THE MODULE**	**Time period**
	Foundation Course	Feb - June 2021
1.	General Module	Feb 2021
2.	General Embryology, General Histology, Haematology, Immunology	Feb – Mar 2021
3.	Locomotor System & Autonomic Nervous System, Minerals	Mar – April 2021
4.	Cardiovascular System	Apr – May 2021
5.	Respiratory system	May 2021
6.	Endocrine system	May –June 2021
7.	Head & Neck, Special Senses and Central Nervous System, Carbohydrate Metabolism, Vitamins, Amino acids	June, July & Aug 1st week 2021
8.	Renal system, Temperature regulation, acid base balance, ammonia metabolism	Aug 2021
9.	Gastrointestinal System, Molecular biology, cancer genetics, advances in molecular biology	Sep – Oct 2021
10.	Reproductive system	Oct 2021
11	Revision	Oct – Nov 2021

TOTAL TEACHING HOURS

Foundation course	175 hrs
Anatomy	675 hrs
Physiology	495 hrs
Biochemistry	250 hrs
CM	52 hrs
ECE	90 hrs
AETCOM	34 hrs
Sports & extracurricular activities	60 hrs
Formative assessment & Term exams	80 hrs

I. HUMAN ANATOMY

1. GOAL

The broad goal of the teaching of undergraduate students in Anatomy aims at providing comprehensive knowledge of the gross and microscopic structure and development of human body to provide a basis for understanding the clinical correlation of organs or structures involved and the anatomical basis for the disease presentations.

2. OBJECTIVES

2.1. Knowledge

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

2.1.1. comprehend the normal disposition, clinically relevant interrelationships, functional and cross sectional anatomy of the various structures in the body;

2.1.2. Identify the microscopic structure and correlate elementary ultrastructure of various organs and tissues and correlate the structure with the functions as a prerequisite for understanding the altered state in various disease processes;

2.1.3. Comprehend the basic structure and connections of the central nervous system to analyze the integrative and regulative functions of the organs and systems. He / She shall be able to locate the site of gross lesions according to the deficits encountered;

2.1.4. Demonstrate knowledge of the basic principles and sequential development of the organs and systems; recognize the critical stages of development and the effects of common teratogens. He / She shall be able to explain the developmental basis of the major variations and abnormalities.

2.2. Skills

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

2.2.1. Identify and locate all the structures of the body and mark the topography of the living anatomy.

2.2.2. Identify the organs and tissues under the microscope;

2.2.3. Understand the principles of karyotyping and identify the gross congenital anomalies;

2.2.4. Understand the principles of newer imaging techniques like Ultra sound, Computerized Tomography Scan (CTS); Interpretation of Plain and contrast X-rays.

2.2.5. Understand clinical basis of some common clinical procedures i.e. intramuscular and intravenous injection, lumbar puncture, kidney biopsy etc.

2.3. Integration

From the integrated teaching of other basic sciences, student shall be able to comprehend the regulation and integration of the functions of the organs and systems in the body and thus interpret the anatomical basis of disease processes.

2.4. Recommended Books

S.No	Author	Text Book
1	Krishna Garg	B.D.Chaurasia's Human Anatomy (4 Vols), 8th edition

2	Krishna Garg	B.D.Chaurasia's General Anatomy, 6th edition
3	Rachel Koshi	Cunningham's Manual of Practical Anatomy (3 Vols), 16th edition
4	Marios Loukas	Gray's clinical photographic dissector of the human body
5	Neelam Vasudeva	Inderbir Singh'sText book of Human Histology, 9th edition
6	V.Subhadra Devi	Inderbir Singh's Human Embryology, 11th edition
7	Balakrishna Shetty	Histology Practical Manual, 3rd edition
8	T.W.Sadler	Langman's Medical Embryology South Asian edition
9	Victor.P.Eroschenko	Difiore's Atlas of Histology 11th edition
10	Elsevier	Dorlands Pocket Medical Dictionary 30th edition
11	Richard L Drake	Gray's anatomy for students. Vol:1, 2nd edition
12	Richard L Drake	Gray's anatomy for students. Vol:2, 2nd edition
13	Yogesh Ashok Sonatakke	Principles of clinical genetics

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MARK PATTERN

Theory Paper I	100 Marks
Theory Paper II	100 Marks
Practicals	80 Marks
Viva	20 Marks
Total	**300 Marks**

INTERNAL ASSESSMENT
100 marks

Theory (50 marks)	**Practicals** (50 marks)
Theory (IA Marks + Model exam marks) **40 Marks**	Practicals (IA Marks+ Model exam marks) **30 Marks**
Log Book – Theory (Seminar, quiz, symposium, ECE, SDL) **10 Marks**	Log Book – Practicals (Certifiable competencies, research projects, problem solving exercises, conferences, co-curricular competitions) **10 Marks**
	Records **10 Marks**
Total = **50 marks**	Total = **50 marks**

BLUEPRINT OF QUESTION PAPER

I. THEORY EXAMINATION PATTERN

I. 1. General Theory Question Paper Pattern:

Two papers each of 3 hours duration and carrying 100 marks each.

I.2. Marks distribution for each paper :

Type of question	Numbers X Marks	Total marks
Multiple Choice Questions	20 X 1	20
Short notes	6 X 5	30
Brief answers	10 X 2	20
Essay	2 X 15	30
Total		**100**

I.3. Paper I & Paper II Contents

I.3.a. Paper I

General Anatomy
General Embryology
Genetics
General Histology
Upper Limb
Lower Limb
Abdomen, Pelvic cavity & Perineum with systemic embryology and systemic histology

I.3.b. Paper II

Thorax
Head and Neck
Brain and Spinal cord
With systemic embryology and systemic histology of above regions

I.4. Note to exam paper setters (Ref.: GMER 2019- Assessment)

- One Essay in both Paper I & Paper II must be a problem based structured question.
- Any two of the Short Notes in both Paper I & Paper II must be clinically oriented questions.
- Any two Answer Briefly questions of 2 marks each in both Paper I & Paper II must be of reasoning out & task-oriented type.
- Any two MCQs in both Paper I & Paper II must be case scenario based.

I.5. Paper I

S. No.	Topics	Essay (2 x 15 = 30 marks)	Short Notes (6 x 5 = 30 marks)	MCQs (20 x 1 = 20 marks)	Brief Answers (10 x 2 = 20 marks)	Total Marks
1.	Upper Limb/Lower limb	1 X 15 = 15 (Upper limb/Lower limb)	1 X 5 = 5 (Upper limb/Lower limb from the region not covered in essay)	3 X 1 = 3 (Upper limb) 3 X 1 = 3 (Lower limb)	2 X 2 = 4 (Upper limb/Lower limb from the region not covered in essay)	30
2.	Abdomen/ Pelvic cavity & Perineum	1 X 15 = 15 (Abdomen/ Pelvic cavity)	1 X 5 = 5 (Abdomen/ Pelvic cavity from the topic not covered in essay)	4 X 1 = 4 (Abdomen) 3 X 1 = 3 (Pelvic cavity) 1 X 1 = 1 (Perineum)	2 X 2 = 4 (Abdomen/ Pelvic cavity from the topic not covered in essay)	32
3.	General anatomy	-	1 X 5 = 5	1 X 1 = 1	-	06
4.	General histology	-	-	1 X 1 = 1	2 X 2 = 4	05
5.	General embryology		1 X 5 = 5	1 X 1 = 1	1 X 2 = 2	08
6.	Systemic histology (Abdomen/Pelvic cavity)	-	1 X 5 = 5	1 X 1 = 1	1 X 2 = 2	08
7.	Systemic embryology (Abdomen/Pelvic cavity)	-	1 X 5 = 5	1 X 1 = 1	1 X 2 = 2	08
8.	Genetics	-	-	1 X 1 = 1	1 X 2 = 2	03
	Total	**30**	**30**	**20**	**20**	**100**

I.6. Paper II

S. No.	Topics	Essay (2 x 15 = 30 marks)	Short Notes (6 x 5 = 30 marks)	MCQs (20 x 1 = 20 marks)	Brief Answers (10 x 2 = 20 marks)	Total Marks
1.	Head and Neck	1 X 15 = 15	2 X 5 = 10	10 X 1 = 10	2 X 2 = 4	39
2.	Thorax/Neuroanatomy	1 X 15 = 15	1 X 5 = 5 (Thorax) 1 X 5 = 5 (Neuroanatomy)	4 X 1 = 4 (Thorax) 4 X 1 = 4 (Neuroanatomy)	2 X 2 = 4 (Thorax) 2 X 2 = 4 (Neuroanatomy)	41
2.	Systemic histology *(Head and Neck/ Thorax/Neuroanatomy)	-	1 X 5 = 5	1 X 1 = 1	1 X 2 = 2 (Head and Neck) 1 X 2 = 2 (Thorax/ Neuroanatomy)	10
3.	Systemic embryology *(Head and Neck/ Thorax/Neuroanatomy)	-	1 X 5 = 5	1 X 1 = 1	1 X 2 = 2 (Head and Neck) 1 X 2 = 2 (Thorax/ Neuroanatomy)	10
	Total	**30**	**30**	**20**	**20**	**100**

*****Short note/MCQ in **s**ystemic histology should be from Head and Neck if systemic embryology question is asked from Thorax/Neuroanatomy or vice versa.

II. PRACTICAL EXAMINATION PATTERN

II.1. Total Practical Marks 80 marks

II.1. a. Gross Anatomy	
Spotters	10 X 2 =20 marks
Discussion	10 marks (Paper I – 5 marks; Paper II – 5 marks)
Total	**30 marks**

II.1.b Histology	
Spotters	10X2 =20 marks
Discussion	10 marks (General Histology – 5 marks; Systemic Histology – 5 marks)
Total	**30 marks**

II.1.c. Objective Structured Practical Examination (OSPE)	
Testing of Actions of muscles/Movements of joints	05 marks
Live Surface Anatomy (Bony landmarks/Palpation of blood vessels & organs)	05 marks
Genetics Chart	05 marks
Problem Solving Exercise in Clinical Anatomy	05 marks
Total	**20 marks**

II.2. Spotters distribution

II.2.a. Gross Anatomy Spotters distribution (Each Spotter carries 2 marks)	Nos.
Upper Extremity	1
Lower Extremity	1
Thorax	1
Abdomen & Pelvic cavity	3
Head & Neck	3
Brain & Spinal cord	1

II.2.b. Histology Spotters distribution (Each Spotter carries 2 marks)	Nos.
General Histology	3
Systemic Histology	7

III. VIVA VOCE EXAMINATION PATTERN

Total Marks	**20 marks**
Osteology	5 marks
Radiology	5 marks
Embryology	5 marks
Surface marking	5 marks

II. HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS

1. PHYSIOLOGY

1.1. GOAL

The broad goal of the teaching of undergraduate students in Physiology aims at providing the student comprehensive knowledge of the normal functions of the organ systems of the body to facilitate an understanding of the physiological basis of health and disease.

1.2. OBJECTIVES

1.2.1. Knowledge

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

1. Explain the normal functioning of all the organ systems and their interactions for well-coordinated total body function.
2. Assess the relative contribution of each organ system to the maintenance of the milieu interior.
3. Elucidate the physiological aspects of normal growth and development.
4. Describe the physiological response and adaptations to environmental stresses.
5. List the physiological principles underlying pathogenesis and treatment of disease.

1.2.2. Skills

At the end of the course the student shall be able

1. Conduct experiments designed for study of physiological phenomena;
2. Interpret experimental / investigative data;
3. Distinguish between normal and abnormal data derived as a result of tests which he / she has performed and observed in the laboratory.

1.2.3. Integration

At the end of the integrated teaching the student shall acquire an integrated knowledge of organ structure and function and its regulatory mechanisms.

3.3. Recommended Books

S.No.	Author	Name of the book
1	S. Sircar	Textbook of Medical Physiology
2	A. Guyton	Medical Physiology
3	G.K. Pal	Textbook of Medical Physiology
4	N. Geetha	Practical Physiology (Jaypee)

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UNIVERSITY EXAMINATION PATTERN

I MBBS - HUMAN PHYSIOLOGY

<table>
<tr><td>Theory Paper I</td><td colspan="2">100 Marks</td></tr>
<tr><td>Theory Paper II</td><td colspan="2">100 Marks</td></tr>
<tr><td>Practicals</td><td colspan="2">80 Marks</td></tr>
<tr><td>Viva</td><td colspan="2">20 Marks</td></tr>
<tr><td>Total</td><td colspan="2">300 Marks</td></tr>
<tr><td rowspan="4">Internal assessment</td><td colspan="2">100 Marks</td></tr>
<tr><td>Theory (IA Marks+ Model exam marks)
40</td><td>Practicals (IA Marks+ Model exam marks)
30</td></tr>
<tr><td>Log Book – Theory(Seminar, quiz, symposium, ECE, SDL)
10</td><td>Log Book – Practicals(Certifiable competency, research projects, problem solving exercises, conferences, co-curricular competitions)
10</td></tr>
<tr><td></td><td>Records
10</td></tr>
<tr><td></td><td>Total = 50 marks</td><td>Total = 50 marks</td></tr>
</table>

BLUEPRINT OF THEORY QUESTION PAPER

General Theory Question Paper Pattern:

Two papers each of 3 hours duration carrying 100 marks each.

Marks distribution for each paper:

Type of question	Numbers X Marks	Total marks
Multiple Choice Questions	20 X 1	20
Short notes	6 X 5	30
Brief answers	10 X 2	20
Essay	2 X 15	30
Total		100

Paper – I Portions

1. General Physiology Including body fluids
2. Nerve Muscle Physiology

3. Blood
4. Gastrointestinal system (GIT)
5. Excretion
6. Endocrinology & Reproduction

Paper – II Portions

1. Cardiovascular system (CVS)
2. Respiratory system (RS)
3. Central nervous system (CNS)
4. Special senses

***Note: -** One Essay in both Paper I & Paper II must be a problem based structured question.
- Any FIVE of the MCQs in both Paper I & Paper II must be Problem Based Questions.

Paper I

S. No.	Topics	Essay (2x15=30 Marks)	Short notes (6x5= 30 Marks)	MCQs (20x1=20 Marks)	Brief Answers (10x2=20 Marks)	Total Marks
1.	General Physiology Including body fluids	-	2X5=10 2	2X1=2 2	2X2=4 2	16
2.	Nerve Muscle Physiology/ Blood	1X15=15 1	1X5=5 1 (Not from the system covered in Essay)	8X1=8 8 (3-from system covered in essay, 5 from system not covered in essay)	3X2=6 3 (from the topics not covered in essay/ short notes)	34
3.	Gastrointestinal system	-	2X5=10 2	2X1=2 2	2X2=4 2	16
4.	Excretion/ Endocrinology & Reproduction	1X15=15 1	1X5=5 1(Not from the system covered in Essay)	8X1=8 8 (3-from system covered in essay, 5 from system not covered in essay)	3X2=6 3(from the topics not covered in essay/ short notes)	34
Total						100

Paper II						
S. No.	**Topics**	**Essay (2x15= 30 marks)**	**Short Notes (6x5= 30 marks)**	**MCQs (20x1=20 marks)**	**Brief Answers (10x2 =20 marks)**	**Total marks**
1.	CVS/RS	1X15= 15 1	3X5=15 (1 from system covered in essay and 2 from system not covered in essay)	10X1=10 (6- from system not covered in essay; 4-from system covered in essay)	4X2=8 (2-CVS; 2-RS)	48
2.	CNS/Special senses	1X15= 15 1	3X5=15 (1 from system covered in essay and 2 from system not covered in essay)	10X1=10 (6- from system not covered in essay; 4-from system covered in essay)	4X2=8 (2-Special senses; 2-CNS)	48
3.	Integrated Topics				2 x 2	4

PRACTICAL EXAMINATION PATTERN

Total Practical Marks **100 marks**

Both practicals and Viva are planned in such a way that each examiner gets equal share of marks.

Viva: 20

Gen Physiology, body fluids, Nerve& muscle, Blood -5
Endocrine, Reproduction, GIT, Excretion-5
CNS, Special senses, Integrated Topics -5
CVS, RS-5

Practicals: 80

I. Clinical Minor: No: 2		
Examiner	**Practical**	**Marks Allotted**
Examiner 1	Clinical Minor	10
Examiner 2	Clinical Minor	10
II. OSPE: No: 12 (Onserved-4; Non-Observed-8)		
Examiner 3	Observed station 1 Observed station 2	5 5
Examiner 4	Observed station 3 Observed station 4	5 5
Day1: Examiner 1 Day2: Examiner 2 Day3: Examiner 3 Day4: Examiner 4	Non - Observed station 8 in no. (Charts, Calculations, Interpretation, Spotters)	8x5=40
Total		**80**

III. BIOCHEMISTRY

Biochemistry includes Molecular Biology.

1. GOAL

The broad goal of the teaching of undergraduate students in Biochemistry is to make them understand the scientific basis of the life processes at the molecular level and to orient them towards the application of the knowledge acquired in solving clinical problems.

2. OBJECTIVES

2.1. Knowledge

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

1. Describe the molecular and functional organization of a cell and list its sub-cellular components;
2. Delineate structure, function and inter-relationships of biomolecules and consequences of deviation from normal;
3. Summarize the fundamental aspects of enzymology and clinical application wherein regulation of enzymatic activity is altered;
4. Describe digestion and assimilation of nutrients and consequences of malnutrition;
5. Integrate the various aspects of metabolism and their regulatory pathways;
6. Explain the biochemical basis of inherited disorders with their associated sequelae;
7. Describe mechanisms involved in maintenance of body fluids and pH homeostasis;
8. Outline the molecular mechanisms of gene expression and regulation-the principles of genetic engineering and their application in medicine;
9. Summarize the molecular concepts of body defense and their application in medicine;
10. Outline the biochemical basis of environmental health hazards, biochemical basis of cancer and carcinogenesis;
11. Familiarize with the principles of various conventional and specialized laboratory investigations and instrumentation analysis and interpretation of a given data;
12. The ability to suggest experiments to support theoretical concepts and clinical diagnosis.

2.2. Skills

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

2.2.1. Make use of conventional techniques/instruments to perform Biochemical analysis relevant to clinical screening and diagnosis;

2.2.2. Analyze and interpret investigative data;

2.2.3. Demonstrate the skills of solving scientific and clinical problems and decision making;

2.3. Integration

The knowledge acquired in Biochemistry should help the students to integrate molecular events with structure and function of the human body in health and disease.

3.3. Recommended Books

1. "Biochemistry" by Pankaja Naik, 5th Edition.
2. "Textbook of Biochemistry" by Rafi MD, 4th Edition.
3. "Textbook of Biochemistry for Medical Students" by DM Vasudevan, 9th Edition.
4. "Manual of Practical Biochemistry for MBBS" by DM Vasudevan, 9th Edition.

BLUE PRINT
UNIVERSITY EXAMINATION PATTERN

I MBBS - BIOCHEMISTRY

I.	**THEORY PAPER I**	**: 100 MARKS**
	THEORY PAPER II	**: 100 MARKS**
II.	**PRACTICALS**	**: 80 MARKS**
III.	**VIVA**	**: 20 MARKS**
	TOTAL	**: 300 MARKS**

INTERNAL ASSESSMENT (100 marks)	
Theory (50 marks)	**Practicals** (50 marks)
Theory (IA Marks + Model exam marks) **40 Marks**	Practicals (IA Marks+ Model exam marks) **30 Marks**
Log Book – Theory (Seminar, Quiz, symposium, ECE, SDL Vertical Integration, co-curricular competitions) **10 Marks**	Log Book – Practicals (Certifiable competencies, problem solving exercises, research projects, Conferences) **10 Marks**
	Record - **10 Marks**
Total = **50 marks**	Total = **50 marks**

I. THEORY EXAMINATION PATTERN

(1.1) THEORY EXAM PATTERN:

Biochemistry Paper I : 100 marks
Biochemistry Paper II : 100 marks

(1.2) MARKS DISTRIBUTION FOR EACH PAPER :

Type of question	**No. of questions x Marks**	**Total marks**
Multiple Choice Questions	20 X 1	20
Long Answer Questions (LAQ)	2 X 15	30
Short Answer Questions (SAQ)	6 X 5	30
Brief Answer Questions (BAQ)	10 X 2	20
Total		**100**

(1.3) CONTENTS FOR PAPER 1& 2

PAPER I CONTENTS:

1	Cell
2	Enzymes
3	Vitamins
4	Mitochondrial Electron Transport chain
5	Hemoglobin chemistry and metabolism
6	Energy and Nutrition
7	Carbohydrates Chemistry & Metabolism
8	Lipids Chemistry & Metabolism

PAPER II CONTENTS:

S.No	Topic
1	Protein Chemistry & Metabolism, Extracellular matrix
2	Nucleic acid Chemistry and Metabolism
3	Molecular Biology
4	Organ Function tests (kidney, liver, gastric, pancreatic thyroid and adrenal glands) and disorders
5	Acid Base Balance, Fluid & electrolytes, Minerals
6	Cancer and tumor markers, Free Radicals & antioxidants, Detoxification.
7	Body fluids, radioisotopes Instrumentation, Hormones

I.4. Note :

I.4.A Multiple Choice Questions (MCQs) (20X1=20 Marks)
Any 5 MCQs out of 20 in each paper will be case scenario based.
I.4.B Long Answer Question (LAQ) (2X15=30 Marks)
One Long Answer Question (LAQ) in both Paper I & Paper II must be a problem based structured question and the second LAQ will be a structured question.

(1.5) BIOCHEMISTRY PAPER I Mark distribution (TOTAL MARKS -100)

S. No.	TOPIC	Long Answer Question (LAQ) 2x15=30 marks	Short Answer Question (SAQ) 6 x 5= 30 marks	Brief Answer Question (BAQ) 10 x2= 20 marks	MCQs 20x1=20 marks	TOTAL
1	Carbohydrate chemistry and metabolism, Lipid chemistry and metabolism	1 X 15 = 15	2 X 5 = 10	3 X 2 =6	8 X 1= 8	**39**
2	Enzymes, Vitamins Hemoglobin metabolism & disorders	1 X 15 = 15	3 X 5 = 15	3 X 2 = 6	7 X 1= 7	**43**
3	Energy and nutrition	-	1 X 5 = 5	2 X 2 = 4	3 X 1 = 3	**12**
4	METC, Cell	-	-	2 X 2 = 4	2 X 1 = 2	**6**
	TOTAL	**30**	**30**	**20**	**20**	**100**

(1.6) BIOCHEMISTRY PAPER II Mark distribution (TOTAL MARKS -100)

S. No	TOPIC	Long Answer Question (LAQ) 2X15=30 marks	Short Answer Question (SAQ) 6x5= 30 marks	Brief Answer Question (BAQ) 10x2= 20 marks	MCQs 20x1=20 marks	TOTAL
1	Protein chemistry and metabolism, Extracellular matrix, Nucleic acid metabolism *****Molecular Biology	1x15=15	3x5=15	3x2=6	7x1=7	**43**

2	Acid Base Balance, Fluid Electrolytes, Minerals, Organ Function tests** and disorders	1x15=15	2x5=10	4x2=8	8 x1=8	**41**
3	Detoxification, Free radicals & antioxidants, Cancer and Tumour markers	-	1x5=5	2x2=4	3 x1=3	**12**
4	Body fluids, radioisotopes Instrumentation, Hormones	-	-	1x2=2	2 x1=2	**4**
	TOTAL	**30**	**30**	**20**	**20**	**100**

***LAQ should not be asked from* <u>**Regulation of gene expression**</u>**

****Kidney, liver, gastric, pancreatic, thyroid and adrenal glands***

<u>Students not to be questioned on</u>

1. C**hemical structure of biomolecules**.
2. Students should **not be asked to write the steps or describe the reactions** of following pathways in theory papers
   1. **Uronic acid pathway**
   2. **Pentose phosphate pathway**
   3. **Glycogen metabolism and its regulation**
   4. **Cholesterol biosynthesis**
   5. **Fatty acid synthesis and Triacylglycerol synthesis**
   6. **Synthesis of phospholipids and related molecules**
   7. **Pathways of synthesis and catabolism of amino acids <u>except</u>**
      a. Sulphur containing amino acids
      b. Aromatic amino acids (Phenylalanine, Tyrosine & Tryptophan)
   8. **Purine & Pyrimidine synthesis (Denovo Synthesis)**

II. PRACTICAL EXAMINATION PATTERN:

Total Practical Marks = 80 marks

S.NO	TESTS	MARKS
1	Quantitative	25
2	Qualitative	20
3	Objective Structured Practical Examination (OSPE)	20
4	Clinical Case Studies	15
TOTAL		**80 MARKS**

1.QUANTITIATIVE TESTS =25 marks
(Questions for quantitative estimations will be given as clinical case- based scenario)

S.NO	TESTS	MARKS
1	Performance	10
2	Discussion	15
Total		**25**

2.QUALITATIVE TESTS = 20 marks
(Abnormal urine analysis- Questions will be given as clinical case- based scenario)

S.NO	TESTS	MARKS
1	Performance	10
2	Discussion	10
Total		**20**

3.OSPE = 20 marks

S.NO	TESTS	No.of stations	Marks allotted for each station	Total marks
1	Performance OSPE	1	4	4
2	Response OSPE	4	4	16
Total				**20**

4. CLINICAL CASE STUDIES (CHARTS) = 15 marks

No.of Case studies (charts)	Marks allotted for each chart	Total marks
3	**5**	**15**

III. VIVA VOCE EXAMINATION PATTERN

Examiners	TOPICS	MARKS
1	Cell, Carbohydrates, Biological oxidation, Electron transport chain and Vitamins.	5
2	Proteins, Enzymes, plasma proteins, organ function tests, metabolism of xenobiotics and basics of immunology	5
3	Lipids, Minerals, Nutrition, Metabolism of Heme, Oxidative stress	5
4	Nucleic acids, Molecular Biology, water & electrolytes, Acid Base balance	5
TOTAL		**20**

IV. INTRODUCTION TO HUMANITIES & COMMUNITY MEDICINE

This chapter Including Introduction to the subjects of Demog-raphy, Health Economics, Medical Sociology, Hospital Manage-ment, Behavioral Sciences inclusive of Psychology.

1. OBJECTIVES

1.1. Knowledge

The student shall be able to:

1.1.1. Explain the principles of sociology including demographic population dynamics;

1.1.2. Identify social factors related to health, disease and disability in the context of urban and rural societies;

1.1.3. Appreciate the impact of urbanization on health and disease;

1.1.4. Observe and interpret the dynamics of community behavior;

1.1.5. Describe the elements of normal psychology and social psychology;

1.1.6. Observe the principles of practice of medicine in hospital and community setting;

1.2. Skills

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

1.2.1. Principles of practice of medicine in hospital and community settings and familiarization with elementary nursing practices.

1.2.2. Art of communication with patients including history taking and medico-social work.

1.3. Teaching of community medicine should be both theoretical as well as practical. The practical aspects of the training programme should include visits to the health establishments and to the com-munity where health intervention programmes are in operation.

Internal Examination & Parent Teachers meeting Schedule

INTERNAL ASSESSMENT, MODEL EXAM AND MEDAL EXAM DATES FOR I MBBS (20-21 BATCH)

Subject	Exam	1st Internal assessment	2nd Internal assessment	3rd Internal assessment
Anatomy	**Theory**	19.4.21	7.7.21	5.10.21
	Practical exam	22.4.21	8.7.21	7.10.21
	Viva	23.4.21	9.7.21	8.10.21
Physiology	**Theory**	20.4.21	5.7.21	6.10.21
	Practical exam	12.4.21, 13.4.21 & 15.4.21 (AN)	13.7.21 to 15.7.21 (AN)	12.10.21 to 14.10.21 (AN)
	Viva	24.4.21, 26.4.21 & 28.4.21 (FN)	13.7.21 to 15.7.21 (FN)	12.10.21 to 14.10.21 (FN)
Biochemistry	**Theory**	21.4.21	6.7.21	4.10.21
	Practical exam	12.4.21, 13.4.21 & 15.4.21 (AN)	13.7.21 to 15.7.21 (AN)	12.10.21 to 14.10.21 (AN)
	Viva	23.4.21 & 27.4.21(FN)	13.7.21 to 15.7.21 (FN)	12.10.21 to 14.10.21 (FN)

MODEL EXAM DATES

Dates	Theory exams		Dates
29.11.21/Mon	Anatomy-Paper I	Practical exams	6.12.21 to 11.12.21 (6 batches-25 in each)
30.11.21/Tues	Anatomy-Paper II		
1.12.21/Wed	Physiology-Paper I		
2.12.21/Thurs	Physiology-Paper II		
3.12.21/Fri	Biochemistry-Paper I		
4.12.21/Sat	Biochemistry-Paper II		

Medal exam dates

Anatomy	13.12.21/Mon
Physiology	14.12.21/Tues
Biochemistry	15.12.21/Wed

Parent-teachers meeting

1st Parent-Teachers meeting	18.06.21 (Friday) 7.5.21 (Friday)
2nd Parent-Teachers meeting	5.8.21 (Thursday) & 6.8.21 (Friday)

Vinayaka Mission's Kirupananda Variyar Medical College & Hospitals, Salem – 636308.
ACADEMIC CALENDER 2020 – 2021

Date	Events for February 2021	Events for March 2021	Events for April 2021
1	Foundation Course		
2	Foundation Course		
3	Foundation Course		ECE (Anatomy) AETCOM
4	Foundation Course		**Sunday**
5	Foundation Course		
6	Foundation Course	ECE (Anatomy) AETCOM	
7	**Sunday**	**Sunday**	**World Health Day**
8	Foundation Course	**International Women's Day**	
9	Foundation Course		ECE (Biochemistry)
10	Foundation Course		Foundation Course
11	Foundation Course		**Sunday**
12	Foundation Course	**World Kidney Day** ECE (Biochemistry)	First Internal Assessment Exam – Physiology / Biochemistry Practical
13	Foundation Course	**World Glaucoma Day** Foundation Course	First Internal Assessment Exam – Physiology / Biochemistry Practical
14	**Sunday**	**Sunday**	**Tamil New Year – Holiday**
15			First Internal Assessment Exam – Physiology / Biochemistry Practical
16		Measles Immunisation Day	Mentorship Programme
17			ECE (Physiology) AETCOM
18			**Sunday**
19	Mentorship Programme	Mentorship Programme	First Internal Assessment Exam - Anatomy Theory
20	ECE (Physiology)	ECE (Physiology)	First Internal Assessment Exam - Physiology

	AETCOM	AETCOM	Theory
21	**Sunday**	**Sunday**	First Internal Assessment Exam - Biochemistry Theory
22			First Internal Assessment Exam - Anatomy Practical
23			First Internal Assessment Exam - Anatomy Viva First Internal Assessment Exam – Biochemistry Viva
24		World TB Day	Foundation Course First Internal Assessment Exam – Physiology Viva
25		**Founder Chancellor's – Death Anniversary**	**Sunday**
26			First Internal Assessment Exam – Physiology Viva
27	Foundation Course	Foundation Course	First Internal Assessment Exam – Biochemistry Viva
28	**Sunday**	**Sunday**	First Internal Assessment Exam – Physiology Viva
29	-		
30	-		
31	-		-

Date	Events for May 2021	Events for June 2021	Events for July 2021
1	**May Day - Holiday**		**National Doctor's Day**
2	**Sunday**		
3			ECE (Anatomy) AETCOM
4			**Sunday**
5		ECE (Anatomy) AETCOM	Second Internal Assessment Exam - Physiology Theory
6	**World Asthma Day**	**Sunday** **World Malaria Day**	Second Internal Assessment Exam - Biochemistry Theory
7			Second Internal Assessment Exam - Anatomy Theory
8	**World Red Cross Day** Foundation Course		Second Internal Assessment Exam - Anatomy Practical
9	**Sunday** **World Thalassemia Day**		Second Internal Assessment Exam - Anatomy Viva ECE (Biochemistry)
10			**Saturday**
11		ECE (Biochemistry)	**Sunday**
12		Foundation Course	
13		**Sunday**	Second Internal Assessment Exam – Physiology / Biochemistry Practical & Viva
14	ECE (Biochemistry) Mentorship Programme	**World Blood Donation Day**	Second Internal Assessment Exam – Physiology / Biochemistry Practical & Viva
15	ECE (Physiology) AETCOM		Second Internal Assessment Exam – Physiology / Biochemistry Practical & Viva
16	**Sunday**		Mentorship Programme
17			ECE (Physiology) AETCOM
18		Mentorship Programme	**Sunday**

		I – Parents Teachers meeting	
19		ECE (Physiology) AETCOM	
20		**Sunday**	
21			
22	Foundation Course		
23	**Sunday**		
24			**Saturday**
25			**Sunday**
26		Foundation Course	
27		**Sunday**	
28			
29	Foundation Course		
30	**Sunday**		
31		-	**Saturday**

Date	Events for August 2021	Events for September 2021	Events for October 2021
1	**Sunday** World Breast Feeding week		
2	World Breast Feeding week		Gandhi Jayanthi - Holiday
3	World Breast Feeding week		**Sunday**
4	World Breast Feeding week	ECE (Anatomy) AETCOM	Third Internal Assessment Exam - Biochemistry Theory
5	World Breast Feeding week **II – Parents Teachers meeting**	**Sunday** **Teacher's Day**	Third Internal Assessment Exam - Anatomy Theory
6	World Breast Feeding week **II – Parents Teachers meeting**		Third Internal Assessment Exam - Physiology Theory
7	World Breast Feeding week ECE (Anatomy) AETCOM		Third Internal Assessment Exam - Anatomy Practical
8	**Sunday**		Third Internal Assessment Exam - Anatomy Viva ECE (Biochemistry)
9	MED-MANTRA (Medical - Module for Academic Networking and Training) : Self Directed and Peer Learning Session 1		
10		ECE (Biochemistry)	**Sunday** World Mental Health Day
11			
12		**Sunday**	**World Arthritis Day** Third Internal Assessment Exam – Physiology / Biochemistry Practical & Viva
13	ECE (Biochemistry) MED-MANTRA (Medical - Module for Academic Networking and Training) : Self Directed and Peer		Third Internal Assessment Exam – Physiology / Biochemistry Practical & Viva

	Learning Session 2		
14	**Saturday**		Third Internal Assessment Exam – Physiology / Biochemistry Practical & Viva
15	**Sunday** **Independence Day - Holiday**		Mentorship Programme
16			ECE (Physiology) AETCOM
17		Mentorship Programme	**Sunday**
18		ECE (Physiology) AETCOM	
19		**Sunday**	
20	Mentorship Programme		**World Osteoporosis Day**
21	ECE (Physiology) AETCOM		**World Iodine Deficiency Day**
22	**Sunday**		
23			**Saturday**
24			**Sunday** **World Polio Day**
25		**Saturday**	
26		**Sunday**	
27			
28	**Saturday**		
29	**Sunday**		
30			**Saturday**
31		-	**Sunday**

Date	Events for November 2021	Events for December 2021	Events for January 2022
1		**World AIDS Day** **Model Exam - Theory – Physiology Paper I**	**Saturday** **New Year - Holiday**
2		**Model Exam - Theory – Physiology Paper II**	**Sunday**
3		**Model Exam - Theory – Biochemistry Paper I**	
4		**Model Exam - Theory – Biochemistry Paper II**	
5		**Sunday**	
6	ECE (Anatomy) AETCOM	**Model Exam – Practical**	
7	**Sunday**	**Model Exam – Practical**	
8		**Model Exam – Practical**	**Saturday**
9		**Model Exam – Practical**	**Sunday**
10	**World Immunisation Day**	ECE (Biochemistry) **Model Exam – Practical**	
11		**Model Exam – Practical**	
12	ECE (Biochemistry)	**Sunday**	
13	**Saturday**	**Medal Exam** – Anatomy	
14	**Sunday**	**Medal Exam** – Physiology	
15		**Medal Exam** – Biochemistry	**Saturday**
16			**Sunday**
17		Mentorship Programme	
18		ECE (Physiology)	
19	Mentorship Programme	**Sunday**	
20	ECE (Physiology) AETCOM		
21	**Sunday**		

22			**Saturday**
23			**Sunday**
24			
25		**Saturday** **Christmas - Holiday**	
26		**Sunday**	**Republic day**
27	**Saturday**		
28	**Sunday**		
29	**Model Exam - Theory – Anatomy Paper I**		**Saturday**
30	**Model Exam - Theory – Anatomy Paper II**		**Sunday** **World Leprosy Eradication**
31	-		

Medical Education is not just a program for building
knowledge and skills in its recipients…
it is also an experience which creates attitudes and expectations.
--- Abraham Flexner ---