



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

I MBBS (2022 – 2023)

Syllabus & Curriculum

Website : www.vmkvmc.edu.in



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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.

Vision:

To provide service to the humanity at large by making available best form of health care.

Mission:

- To provide the student a highest quality of education in branches of medicine and to provide a perfect learning experience and atmosphere.
- To demonstrate appreciable skill and knowledge and to participate actively in professional growth of self of Institution and of country's knowledge base.
- To contribute to the development of medicine by active participation in scholarly in medical field.
- To develop team spirit and ability to work along with other health personnel.

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, Smart boards, etc., and well equipped labs, seminar halls & demonstration rooms in each department.

PRECLINICAL DEPARTMENTS

Anatomy
Physiology
Biochemistry

PARA-CLINICAL DEPARTMENTS

Pathology
Microbiology
Pharmacology

HOSPITAL

The 630 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

Medicine & Allied Subjects

Forensic Medicine & Toxicology
Community Medicine
General Medicine
Respiratory Medicine
Paediatrics
Psychiatry
Dermatology, Venereology & Leprosy
Physical Medicine & Rehabilitation
Emergency Medicine

Surgery & Allied Subjects

General Surgery
Ophthalmology
Otorhinolaryngology
Obstetrics & Gynaecology
Orthopaedics
Anaesthesia
Radiodiagnosis

SUPER-SPECIALTY DEPARTMENTS

Surgical Oncology
Cardiology
Urology
Nephrology

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.
- 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.
- 2 Examination halls with 250 capacity each are available.

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

Central library with 9041 titles is open from 8 am to 12 midnight. Separate reference, journals (86 Indian & 34 Foreign) and Internet sections with 40 computers 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. Progress of students is monitored longitudinally by the mentors with Student Mentorship Report Card.

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 Anaesthesiology, Anatomy, Biochemistry, Community Medicine, Dermatology, Venereology & Leprosy, Emergency Medicine, General Medicine, General Surgery, Microbiology, Obstetrics and Gynaecology, Ophthalmology, Orthopedics, Otorhinolaryngology, Paediatrics, Pathology, Pharmacology, Physiology, Psychiatry, Radiodiagnosis and Transfusion Medicine are being conducted.

EXTRACURRICULAR ACTIVITIES: Play grounds for hockey, foot-ball, volley-ball, basket-ball, cricket, badminton, throw ball, tennikoit and running track, Indoor games for table tennis & carrom and Gym facilities are available for the students. Sports kits for both outdoor and indoor games are available. Intramural, intercollegiate and interuniversity competitions provide an opportunity for physical fitness.

STUDENT SUPPORT PROGRAMMES like Students Council, Students Grievance Redressal Cell, Seminars, Symposia, CME, Small Group Teaching, Slow and advanced learners programme, Student Mentorship Programme are available. Meritorious students get recognition in the form of awards and medals.

ALUMNI ASSOCIATION of the Institution is strong and helps the students to upgrade their knowledge with scientific updates. Career Guidance counseling is provided for the students.

The Vinayaka Missions group of 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 & Hospitals, Salem 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, dotards & down trodden people.
- I shall consider all men as equal and “the plurality and multiethnicity” 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 the institution's mission 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) No meeting or demonstration should be held in the premises of College / Hospital and Hostels.
- b) Students are forbidden to take part in Political Agitations, Strikes and Demonstrations.
- c) Students are required to observe discipline and be punctual for all Theory & Practical / Clinical classes.

Code of Conduct for Students :

Vinayaka Mission's Kirupananda Variyar Medical College and Hospitals, Salem has derived and drafted the following proposed Code of Conduct for the Students.

- The Student Code of Conduct sets out the standards of conduct expected of students. It holds individuals and groups responsible for the consequences of their actions. Failure to fulfill these responsibilities may result in the withdrawal of privileges or the imposition of sanctions.
- The Institution is a community of students, faculty and staff involved in learning, teaching, research and other activities.
- The student members of this community are expected to conduct themselves in a manner that contributes positively to an environment in which respect, civility, diversity, opportunity and inclusiveness are valued, so as to assure the success of both the individual and the community.
- The Student Code of Conduct reflects a concern for these values and tries to ensure that members of the Institution/University and the public can make use of and enjoy the activities, facilities and benefits of the Institution without undue interference from others.

When does the code apply?

- The Student Code of Conduct applies to any student enrolled in UG/PG at the Institution/University, and including exchange students.

- The Code applies to conduct that occurs on the campuses or near the premises of Vinayaka Mission's Kirupananda Variyar Medical College and Hospitals, Salem.
- It also applies to conduct that occurs elsewhere if it is related to Institution sponsored programs or activities, (such as travelling athletic teams) or if it occurs in the context of a relationship between the student and a third party that involves the student's standing, status or academic record at the Institution/University.

It does not apply to conduct that is assigned to another disciplinary body at the Institution/University, allegations regarding a student's failure to meet standards of professional conduct, or conduct committed by a student solely in his or her capacity as an employee of the Institution/University.

Prohibited conduct

- Assaulting, harassing, intimidating, or threatening another individual or group is a crime.
- Endangering the health or safety of others.
- Stealing, misusing, destroying, defacing or damaging Institution property or property belonging to someone else.
- Disrupting Institution activities.
- Using Institution facilities, equipment, services or computers without authorization.
- Making false accusations against any member of the Institution,
- Supplying false information to the Institution / University or forging, altering or misusing any Institution document or record.
- Using, possessing or distributing illegal drugs,
- Violating government liquor laws or Institution alcohol policies,
- Ragging of any kind,
- Encouraging, aiding, or conspiring in any prohibited conduct.
- Failing to comply will be met with a disciplinary measure or disciplinary measures imposed under the procedures of this Code.

Disciplinary measures

- Disciplinary measures that may be imposed under the Code include but are not limited to: Written warning or reprimand,
- Probation, during which certain conditions must be fulfilled and good behaviour must be exhibited.
- Payment of costs or compensation for any loss, damage or injury caused by the conduct
- Issuance of an apology, made publicly or privately.
- Loss of certain privileges,
- Restriction or prohibition of access to, or use of, Institution facilities, services, activities or programs,
- Fines or loss of fees,
- Relocation or exclusion from hostel,
- Suspension,
- Expulsion.

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, Mess and College and must get a "No Due" certificate from the Deputy warden of the Hostel 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 available 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 in case of any dues with regard to Tuition Fees, Mess 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 exam marks will be considered for University Examinations.
- f. **RECORDS:** Practical record note books, log books and books for SDL & ECE 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 :

- Formal wear for both girls and boys (avoid fluorescent and flashy colored pants/ Jeans/Shorts/T-shirts).
- Girls should tie their hair up & wear cut shoes; avoid bracelets, finger rings, anklets & flowers.
- Nails should be trimmed & not painted.
- Students are expected to wear decent footwear, preferably shoes while attending class, practicals, wards, OPDs and other sections of college and hospital.
- Hair should be trimmed & boys should be clean shaven (face).
- 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. Do's & 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.

***“The capacity to learn is a gift;
the ability to learn is a skill;
the willingness to learn is a choice.”***

Brian Herbert

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

Administrators

- **CHANCELLOR** : Dr. A.S. Ganesan
- **PRO-CHANCELLOR** : Dato' Seri. 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
- **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
- **DIRECTOR (ADMISSIONS)** : Mrs S. Santhana Lakshmi @ Shanthi

Hospital & College Administrators

- **DEAN** : Prof. Dr. K. Ezhil Vendhan, M.S.,
- **MEDICAL SUPERINTENDENT** : Prof. Dr. S.R. Ranga Bashyam, M.D.,
- **DEPUTY DEAN** : Prof. Dr. Deepti Shastri, M.S., MNAMS,
- **DIRECTOR, HOSPITAL DEVELOPMENT COMMITTEE** : Prof. Dr. E.M.J.Karthikeyan, M.S.,
- **DEPUTY MEDICAL SUPERINTENDENT** : Prof. Dr. S. Senthil Priya, M.D.,
- **RMO (Residential Medical Officer)** : Dr. K. Soundararajan, M.S.,

Supporting Staff

- **LIBRARIAN** : Mr. R. Kathirvel, MSc., MLIS, MPhil, PhD.,
- **DEPUTY WARDEN (MALE) (Vikram Sarabhai Hostel)** : Mr. S. Syed Liyakath Ali, M.Sc.(Med. Phy)
- **DEPUTY WARDEN (MALE)** : Dr.M.Mukesh MBBS
- **DEPUTY WARDEN (FEMALE) – Kirupa Hostel** : Dr. Reena Rajan, MSc., (Med Micro), Ph.D.,
- **ASSISTANT WARDEN (FEMALE)** : Mrs Geetha
Ms. Twinkle Sara David

***“Cultivation of mind
should be the
ultimate aim of
human existence”***

Babasaheb Ambedkar

ANTI –RAGGING COMMITTEE 2022 – 2023

Sl. No	Name of the Member	Role in the Committee	Contact No / Mail ID
1.	Prof. Dr. K. Ezhil Vendhan, Dean	Chairperson	96552 18468 dean.vmkvmc@vmu.edu.in
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35.	Ms. Sree Kutty, CRMI	Representative of Students	74038 62677,8943903329 star7miracle@gmail.com
35.	Mr. K. Arun Kumar, Chief Computer Programmer	Non-teaching Staff	94438 48613 karunhari@gmail.com
36.	Mr. P. Dhanasekaran, Office Superintendent	Non-teaching Staff	99424 06667 dhanabalaji25@gmail.com

ANTI –RAGGING SQUAD (2022 – 2023)

Sl. No	Name of the Member	Role in the Committee	Contact No / Mail ID
1.	Prof. Dr. K. Ezhil Vendhan, Dean	Chairperson	96552 18468 dean.vmkvmc@vmu.edu.in
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15.	Dr. Reena Rajan, Deputy Warden(Girls Hostel- Kirupa)	Member	98949 90961 reenarajan83@gmail.com
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17.	Ms. Twinkle Sara David Dy. Warden, Girls Hostel	Member	8157831729 twinklesarah123@gmail.com
	Ms. Geetha, Asst Warden (Girls Hostel)	Member	97914 91424 geethasri9791@gmail.com

INTERNAL COMPLAINTS COMMITTEE
PREVENTION OF SEXUAL HARASSMENT IN WORK PLACE 2022-23

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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) (11 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 . 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 maintain 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 record 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.

II. 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 shall 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 of theory and practical 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 a minimum of 40 % of marks in theory and practical / clinical separately.

III. 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.

IV. Advanced Learners in each subject are encouraged and trained to participate in scientific conferences, dissertation competitions and quizzes.

V. University Examinations

1. University exam marking pattern

Phase of Course	Written – Theory Total	Practicals / Orals / Clinicals	Pass Criteria
First Professional			<u>Internal Assessment</u> 50% combined in theory and practical (not less than 40% in each) for eligibility for appearing for University Examinations <u>University Examination</u> 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 year 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. Students who fail in the supplementary examination will take up exams with next academic year batch.

VI. 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.

VII. 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 Face – To – Face and 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.

Rural Health Centre:

The VMKV Medical College & Hospitals runs a Rural Health Centre by the Community Medicine Department. In addition, two Government 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

*“Education is not preparation for life;
education is life itself.*

John Dewey

Time Table - I MBBS (2022 – 2023) BATCH

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)		Sports / Yoga
Tuesday	Biochemistry (Theory)	# Physiology (SDL/SGT)		Anatomy (Theory)	Anatomy (Dissection)	Anatomy (Dissection)		Anatomy Practical (Batch-A)	♥ Extra-curricular Activities	
								Physiology Practical (Batch-B)		
								Biochemistry Practical (Batch-C)		
Wednes day	*Physiology (Theory / FA& Feedback)	Biochemistry (Theory)		Physiology Tutorial / IGL	Anatomy (Theory)	Anatomy (Dissection)		Anatomy Practical (Batch-B)	Anatomy (SDL)	
								Physiology Practical (Batch-C)		
								Biochemistry Practical (Batch-A)		
Thurs day	Physiology (Theory)	* Biochemistry (FA /Tutorial / SDL)		Community Medicine (Theory / Tutorial / IGL)	Anatomy (Theory)	Anatomy (SDL)		Anatomy Practical (Batch-C)	Physiology (SDL/SGT)	
								Physiology Practical (Batch-A)		
								Biochemistry Practical (Batch-B)		
Friday	Anatomy (Theory)	Physiology (Theory)	⤴ Anatomy (SGT)	Anatomy (Dissection)	Anatomy (Dissection)	*** Anatomy/Physiology/Biochemistry (IGL / SGT)		-		
			⤴ ⤴ Biochemistry (SGT)							
			** ECE Biochemistry / FAP							
Satur day	Anatomy (Theory)	Physiology (SGT)	I Saturday - ECE Anatomy / FAP III Saturday - ECE Physiology / FAP IV Saturdav - AETCOM				I Saturday - Anatomy (SGT) III Saturday - Physiology (SGT) IV Saturdav - AETCOM		-	

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

*** 1st week Biochemistry IGL/SGT, 2nd week Anatomy IGL/SGT, 4th week Physiology IGL/SGT

@ 3rd week Biochemistry SGT (2-3) Mentorship Programs (3-4)

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

⤴ 1st 3 months – Anatomy (SGT); ⤴⤴ After 3 months – Biochemistry (SGT)

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

Gender Sensitization program will be conducted during February & August 2023

II Saturday – Holiday

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

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

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

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
<u>Section – A</u>		
Multiple Choice Questions	20 X 1	20
<u>Section – B</u>		
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%]
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Criteria for pass in University exams

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

Academic Plan

I MBBS (2022 – 2023 batch)

	Anatomy	Physiology	Biochemistry	Community Medicine	Time Period
Foundation Course					3 weeks
General Module	General Anatomy	General Physiology	General Biochemistry & Enzymes	Introduction to Community Medicine	2 weeks
General Module	General Embryology & Histology	Haematology	Hemoglobin metabolism, LFT, Immunology & Vaccines	Nutritional anemia	3 weeks
Locomotor System	Upper limb & Lower limb	Locomotor System & Autonomic Nervous System, Cardiovascular System	Minerals, Vitamins, Nucleic Acid chemistry and metabolism, Plasma protein, ECM	Vitamin A and Folic acid deficiency	6 weeks
Cardiovascular System	Thorax	Cardiovascular System	Lipid metabolism	Concepts of Health and Disease	1 week
Respiratory System	Thorax	Respiratory System	Lipid metabolism	Determinants of health	2 weeks
Gastrointestinal System	Abdomen	Gastrointestinal System	Carbohydrate Metabolism, Nutrition	Concepts of Public health	4 weeks
Renal System	Abdomen	Renal System & Temperature Regulation	Acid Base Balance, Renal Function Test, Fluid & Electrolyte	Dimensions of health	2 weeks
Endocrine System	Abdomen	Endocrine System	Hormones, Thyroid Function Test, Adrenal Function Test, Free radicals, detoxification	Indicators of health	3 weeks

Reproductive System	Pelvis	Reproductive System	Prenatal screening, Molecular Biology, Advances in Molecular Biology	Levels of prevention and Modes of intervention	2 weeks
Central Nervous System & Special senses	Neuro Anatomy and Head & Neck	Special Senses and Central Nervous System	Protein metabolism	Determinants of health	8 weeks
Genetics	Genetics		Cancer Genetics	Genetics in public health	1 week
		Revision			4 weeks
		Model & Medal Examination			3 weeks
		University Examination		48 weeks	4 weeks

TOTAL TEACHING HOURS

Foundation course	39 hrs
Anatomy	650 hrs
Physiology	461 hrs
Biochemistry	245 hrs
CM	67 hrs
ECE	60 hrs
AETCOM	26 hrs
Sports & extracurricular activities	10 hrs
Formative assessment & Term exams	80 hrs

I. HUMAN ANATOMY

1. GOAL

Aims at conveying comprehensive knowledge of the gross and microscopic structure and development of human body to provide anatomical basis for disease clinical conditions.

2.COMPETENCIES :

The undergraduate must demonstrate:

1. Understanding of the gross and microscopic structure and development of human body
- 2.Comprehension of the normal regulation and integration of the functions of the organs and systems on basis of the structure and genetic pattern,
- 3.Understanding of the clinical correlation of the organs and structures involved and interpret the anatomical basis of the disease presentations.

3. OBJECTIVES

3.1. Knowledge

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

- a. Understanding the normal disposition, functional and cross-sectional anatomy of various structures in the body and its clinical relevance.
- b. Identify the microscopic structure of various organs and tissues and comprehend their functions in order to understand the alterations in various disease processes.
- c. Comprehend functional organizations of central nervous system and interpret various signs and symptoms presented as neurological deficit so that he/she may confidently make a diagnosis.
- d. Demonstrate basic concepts of development of organs and tissues, explain the effect of Teratogenic, environmental factors and genetic mutations on critical stages of development.

3.2. Skills

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

- a. Identify and locate all the structures of the body and mark the topography of the living anatomy.
- b. Identify the organs and tissues under the microscope.
- c. Understand the principles of karyotyping and identify the gross congenital anomalies.
- d. Understand principles of newer imaging techniques and interpretation of CT Scan, Sonogram USG etc.
- e. Understand clinical basis of some common clinical procedures i.e., intramuscular & intravenous injection, lumbar puncture and kidney biopsy etc.

3.3 Affective Domain

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

- a. Communicate effectively.
- b. Work as a member of a team.
- c. Complete and submit assignments in time.
- d. Solve clinical problems with anatomical basis.
- e. Follow work ethics.

3.4 Integration

The teaching should be aligned and integrated horizontally and vertically in organ systems with clinical correlation that will provide a context for the learner to understand the relationship between structure and function and interpret the anatomical basis of various clinical conditions and procedures.

Recommended Books

S.No	Author	Text Book
1	Krishna Garg	B.D.Chaurasia's Human Anatomy (4 Vols), 8 th edition
2	Krishna Garg	B.D.Chaurasia's General Anatomy, 6 th edition
3	I.B.Singh	Human Osteology, 4 th Edition
4	Marios Loukas	Gray's clinical photographic dissector of the human body
5	Neelam Vasudeva	Inderbir Singh's Text book of Human Histology, 9 th edition
6	V.Subhadra Devi	Inderbir Singh's Human Embryology, 11 th edition
7	Balakrishna Shetty	Histology Practical Manual, 3 rd edition
8	T.W.Sadler	Langman's Medical Embryology South Asian edition
9	Victor.P.Eroschenko	Difiore's Atlas of Histology 11 th edition
10	Elsevier	Dorlands Pocket Medical Dictionary 30 th edition
11	Richard L Drake	Gray's anatomy for students. Vol:1, 2 nd edition
12	Richard L Drake	Gray's anatomy for students. Vol:2, 2 nd edition
13	Yogesh Ashok Sonatakke	Principles of clinical genetics
14	Ashwini C.Appaji	Surface & Radiologic Anatomy with clinical perspective. 1 st Edition

BLUE PRINT
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
SAQ	6 X 5	30
BAQ	10 X 2	20
LAQ	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

Paper I						
S. No.	Topics	Long Answer Question (LAQ) (2x15= 30 marks)	Short Answer Question (SAQ) (6x5= 30 marks)	MCQ (20x1= 20 marks)	Brief Answer Question (BAQ) (10x2= 20 marks)	Total Marks
1.	Upper Limb/Lower limb	1X15=15 (Upper limb/Lower limb)	1X5= 5 (Upper limb/Lower limb from the region not covered in essay)	3X1=3 (Upper limb) 3X1=3 (Lower limb)	2X2=4 (Upper limb/Lower limb from the region not covered in essay)	30
2.	Abdomen/Pelvic cavity & Perineum	1X15=15 (Abdomen/Pelvic cavity)	1X5= 5 (Abdomen/Pelvic cavity from the topic not covered in essay)	4X1=4 (Abdomen) 3X1=3 (Pelvic cavity) 1X1=1 (Perineum)	2X2=4 (Abdomen/Pelvic cavity from the topic not covered in essay)	32
3.	General anatomy	-	1X5=5	1X1=1	-	06
4.	General histology	-	-	1X1= 1	2X2=4	05
5.	General embryology		1X5=5	1X1=1	1X2=2	08
6.	Systemic histology (Abdomen/Pelvic cavity)	-	1X5=5	1X1=1	1X2=2	08
7.	Systemic embryology (Abdomen/Pelvic cavity)	-	1X5=5	1X1=1	1X2=2	08
8.	Genetics	-	-	1X1=1	1X2=2	03
	Total	30	30	20	20	100

Paper II

S. No.	Topics	Long Answer Question (LAQ) (2x15=30 marks)	Short Answer Question (SAQ) (6x5=30 marks)	MCQ (20x1=20 marks)	Brief Answer Question (BAQ) (10x2=20 marks)	Total Marks
1.	Head and Neck	1X15=15	2X5=10	10X1=10	2X2=4	39
2.	Thorax/Neuroanatomy	1X15=15	1X5=5 (Thorax) 1X5=5 (Neuroanatomy)	4X1=4 (Thorax) 4X1=4 (Neuroanatomy)	2X2=4 (Thorax) 2X2=4 (Neuroanatomy)	41
3.	Systemic histology *(Head and Neck/Thorax/Neuroanatomy)	-	1X5=5	1X1=1	1X2=2 (Head and Neck) 1X2=2 (Thorax/Neuroanatomy)	10
4.	Systemic embryology *(Head and Neck/Thorax/Neuroanatomy)	-	1X5=5	1X1=1	1X2=2 (Head and Neck) 1X2=2 (Thorax / Neuroanatomy)	10
	Total	30	30	20	20	100

*Short Answer Question/MCQ in systemic 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

**“The GOOD
physician treats
the DISEASE;
the GREAT physician
treats the PATIENT who has
the disease”**

Sir William Osler

II. PHYSIOLOGY

PHYSIOLOGY

1. GOAL

The goal of teaching undergraduate students in Physiology is to make them understand the physiological principles and normal homeostatic mechanisms of normal human body so that he/she can understand the disease pattern better.

2. COMPETENCIES:

The undergraduates must demonstrate:

1. Understanding of the normal functioning of the organs and organ systems of the body,
2. Comprehension of the normal structure and organization of the organs and systems on basis of the functions,
3. Understanding of age-related physiological changes in the organ functions that reflect normal growth and development.
4. Understand the physiological basis of diseases

3.OBJECTIVES

3.1. Knowledge

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

1. Elucidate the functions of organ systems in normal subject.
2. Explain the various regulatory mechanisms and their integration in maintenance of Homeostasis.
3. Describe the mechanism of altered physiology on exposure to stress.
4. Apply the principles of physiology in understanding disease process.
5. Compare the normal and abnormal data & interpret the same to assess health status.
6. Comprehend basics of Reproductive physiology as relevant to National Family Welfare Programme.
7. Perform basic laboratory investigations relevant for a rural setup.
8. Demonstrate compassionate approach while examining subjects.

3.2. Skills

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

1. Perform basic hematological experiments.
2. Perform various clinical examination skills on normal subjects.
3. Understand the various principles underlying clinical examination.
4. Understand principles underlying the recent diagnostic investigation like nerve conduction, ECG, lung function tests etc.

3.3 Affective Domain

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

- a. Communicate effectively.
- b. Work as a member of a team.
- c. Complete and submit assignments in time.
- d. Solve clinical problems with physiological basis.
- e. Follow work ethics.

3.4 Integration

The teaching should be aligned and integrated horizontally and vertically in organ systems in order to provide a context in which normal function can be correlated both with structure and with the biological basis, its clinical features, diagnosis and therapy

Recommended Books

S.No.	Author	Name of the book
1	S. Sircar	Textbook of Medical Physiology
2	A. Guyton	Medical Physiology (Elsevier)
3	G.K. Pal	Textbook of Medical Physiology -two volumes (Jaypee)
4	N. Geetha	Practical Physiology (Jaypee)
5	Dr.Milind.V.Bhutkar	A Concise textbook of physiology
6	N.Geetha	Human Physiology for medical students
7	MadanmohanTrakroo, Lakshmi Jatiya	Handbook of Practical physiology Objective structured practical instructions (OSPI) (Paras)

*Medical education
does not exist to
provide students with
a way of making a
living, but to ensure
the health of the community*

Rudolf Virchow

BLUE PRINT
UNIVERSITY EXAMINATION PATTERN
I MBBS - PHYSIOLOGY

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, Vertical Integration, SDL) 10 Marks	Log Book –Practicals (Certifiable competency, research projects, problem solving exercises, conferences, co-curricular competitions, ECE) 10 Marks
	Records 10 Marks
Total = 50 marks	Total = 50 marks

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	Long Answer Question (LAQ) (2x15= 30 marks)	Short Answer Question (SAQ) (6x5= 30 marks)	MCQs (20x1= 20 marks)	Brief Answer Question (BAQ) (10x2= 20marks)	TOTAL MARKS
1.	General Physiology Including body fluids/ Gastrointestinal system/Excretion	1 X 15 1	2 X 5 = 10 (1 from system covered in LAQ 1 from systems not covered in LAQ)	10 X 1 = 10 (4 from systems covered in LAQ, 6 from systems not covered in LAQ)	5 X 2 = 10 (1 from system covered in LAQ & 3 from systems not covered in LAQ)	45
2.	Nerve Muscle Physiology/ Blood/ Endocrinology & Reproduction	1X15=15 1	3 X 5 = 15 (1 from system covered in LAQ 2 from systems not covered in LAQ)	10 X 1 = 10 (4 from systems covered in LAQ, 6 from systems not covered in LAQ)	5 X 2 = 10 (1 from system covered in LAQ & 3 from systems not covered in LAQ)	50
3.	AETCO M		1 X 5 = 5			5
Total						100

Paper II						
S. No.	-TOPICS	Long Answer Question (LAQ) (2x15=30 marks)	Short Answer Question (SAQ) (6x5=30 marks)	MCQs (20x1=20 marks)	Brief Answer Question (BAQ) (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	-			2X2=4	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 Examinations: No: 2		
Examiner	Practical	Marks Allotted
Examiner 1	Clinical Examination - CNS	10
Examiner 2	Clinical Examination – CVS (or) RS	10
II. OSPE: No: 12 (Observed-4; Non-Observed-8)		
Examiner 3	Observed station 1	5
	Observed station 2	5
Examiner 4	Observed station 3	5
	Observed station 4	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
The sequence will be repeated for exams exceeding 4 days.		

*Medical Education does not exist to
provide students with a way of making a living,
but to ensure the health of the community.*

Rudolf Virchow

III. BIOCHEMISTRY

Biochemistry including 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. COMPETENCIES

The learner must demonstrate an understanding of:

1. Biochemical and molecular processes involved in health and disease,
2. Importance of nutrition in health and disease,
3. Biochemical basis and rationale of clinical laboratory tests and demonstrate ability to interpret these in the clinical context.

3.OBJECTIVES

3.1. 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.

3.2. Skills

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

- a. Make use of conventional techniques/instruments to perform Biochemical analysis

relevant to clinical screening and diagnosis;

- b. Analyze and interpret investigative data;
- c. Demonstrate the skills of solving scientific and clinical problems and decision making;

3.3. Affective Domain

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

- a. Communicate effectively.
- b. Work as a member of a team.
- c. Complete and submit assignments in time.
- d. Solve clinical problems with biochemical basis.
- e. Follow work ethics.

3.4 Integration

The teaching/learning programme should be integrated horizontally and vertically, as much as possible, to enable learners to make clinical correlations and to acquire an understanding of the cellular and molecular basis of health and disease.

Recommended Books

S.No.	Author	Name of the book
1	Pankaja Naik	Biochemistry, 5 th Edition
2	U.Sathyanarayana	Textbook of Biochemistry, 6 th Edition
3	DM Vasudevan	Textbook of Biochemistry for Medical Students, 9 th Edition
4	Asish Sharma, Anita Sharma	Practical and Clinical Biochemistry, (Jaypee), 2 nd Edition

BLUE PRINT
UNIVERSITY EXAMINATION PATTERN

I MBBS – BIOCHEMISTRY

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 Vertical Integration, co-curricular competitions) 10 Marks	Log Book – Practical (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	*LAQ (2x15=30)	SAQ (6x5=30)	BAQ (10x2=20)	MCQs (20x1=20)	Total
1	*Carbohydrate chemistry & Metabolism	1		2	4	23
2	*Lipid chemistry & Metabolism		2	3	2	18
3	*Enzyme		2	1	3	15
4	*Vitamins	1			4	19
5	*Hemoglobin metabolism & disorders, METC		1	2	3	12
6	*Energy & nutrition		1	1	3	10
7	Cell			1	1	3
	Total	30	30	20	20	100

NOTE:

*LAQs will be asked in these chapters

SAQs can be asked from all chapters except METC, Cell

BAQs & MCQs can be asked from all the chapters

(1.6) BIOCHEMISTRY PAPER II Mark distribution (TOTAL MARKS -100)						
S.No.	Topic	*LAQ (2x15=30)	SAQ (6x5=30)	BAQ (10x2=20)	MCQs (20x1=20)	Total
1	*Protein chemistry & metabolism, *Plasma proteins Extracellular matrix	1		2	6	25
2	*Nucleic acid chemistry & metabolism, *Molecular Biology	1		2	5	24
3	*Acid Base Balance, *Minerals		2 (1 SAQ from Acid base balance and 1 from minerals)	2	3	17
4	*Organ function tests, Fluid and electrolytes		3 (2 from organ function test, 1 from fluid & electrolytes)	2	2	21
5.	Cancer and Tumor markers, Immunology, Detoxification, Free radicals & antioxidants		1(cancer/ tumor marker)	2 (topic not covered in SAQ)	2	11
6.	Body fluids, Radioisotopes Instrumentation, Hormones				2	2

NOTE:

*LAQs will be asked in these chapters.

SAQs can be asked from all chapters except Body fluids, Radioisotopes Instrumentation, Hormones

BAQs & MCQs can be asked from all the chapters

*** Students not to be questioned on**

1. **Chemical structure of biomolecules.**

2. **Steps or describe the reactions** of following pathways in theory papers

- **Uronic acid pathway**
- **Pentose phosphate pathway**
- **Glycogen metabolism and its regulation**
- **Cholesterol biosynthesis**
- **Fatty acid synthesis and Triacylglycerol synthesis**
- **Synthesis of phospholipids and related molecules**
- **Pathways of synthesis and catabolism of amino acids except Sulphur containing amino acids, Aromatic amino acids (Phenylalanine, Tyrosine & Tryptophan)**
- **Purine & Pyrimidine synthesis (Denovo Synthesis)**
- **LAQ from Regulation of gene expression**

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. QUANTITATIVE 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

*“Wherever the
 ART OF MEDICINE
 is loved,
 There is also
 a love of
 HUMANITY”*

Hippocrates

IV. INTRODUCTION TO HUMANITIES & COMMUNITY MEDICINE

This chapter Including Introduction to the subjects of Demography, Health Economics, Medical Sociology, Hospital Management, Behavioral Sciences inclusive of Psychology.

1. Goal:

The broad goal of the teaching of undergraduate students in Community Medicine is to prepare them to function as community and first level physicians in accordance with the institutional goals.

2. Competencies:

Aim of teaching by the department is directed towards achievement of the goal of “Health for All” and millennium development towards this end, by the completion of his training, the M.B.B.S. student should be:

- Aware of the physical, social, psychological, economic and environment aspect of health and disease.
- Able to apply the clinical skills to recognize and manage common health problems including their physical, emotional and social aspects at the individual and family levels and deal with medical emergencies at the community level.
- Able to define and manage the health problems of the community he / she serves. To achieve this, he / she shall learn to:
 - Organize elementary epidemiological studies to assess the health problems in the area. For this he should be able to design a study, collect data, analyze it with statistical tests, make a report and be able to participate in a health information system.
 - Prioritize the most important problems and help formulate a plan of action to manage them under National Health Programme guidelines including population control and family welfare programme. He should be able to assess and allocate resources, implement and evaluate the programmes.
 - Demonstrate knowledge of principles of organising prevention and control of communicable and non-communicable diseases.
 - Organize health care services for special groups like mothers, infants, under-five children and school children.
 - Organize health care in case of calamities.

- Able to work as an effective member of the health team.
- Able to coordinate with and supervise other members of the health team and maintain liaison with other agencies.
- Able to plan and implement health education programmes.
- Able to perform administrative functions of health centres.
- Able to promote community participation especially in areas of disease control, health education and implementation of national programmes.
- Aware of the national priorities and the goals to be achieved to implement comprehensive health care.

3.Objectives:

3.1 Knowledge:

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

- Describe the health care delivery system including rehabilitation of the disabled in the country;
- Describe the National Health Programmes with particular emphasis on maternal and child health programmes, family welfare planning and population control.
- List epidemiological methods and describe their application to communicable and non-communicable diseases in the community or hospital situation.
- Apply bio statistical methods and techniques;
- Outline the demographic pattern of the country and appreciate the roles of the individual, family, community and socio-cultural milieu in health and disease.
- Describe the health information systems.
- Enunciate the principles and components of primary health care and the national health policies to achieve the goal of 'Health for All'.
- Identify the environmental and occupational hazards and their control.
- Describe the importance of water and sanitation in human health.
- To understand the principles of health economics, health administration, health education in relation to community.

3.2 Skills

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

- Use epidemiology as a scientific tool to make rational decisions relevant to community and individual patient intervention.

- Collect, analyze, interpret and present simple community and hospital based data.
- Diagnose and manage common health problems and emergencies at the individual, family and community levels keeping in mind the existing health care resources and in the context of the prevailing socio-cultural beliefs.
- Diagnose and manage maternal and child health problems and advise a couple and the community on the family planning methods available in the context of the national priorities.
- Diagnose and manage common nutritional problems at the individual and community level.
- Plan, implement and evaluate a health education programme with the skill to use simple audio-visual aids.
- Interact with other members of the health care team and participate in the organization of health care services and implementations of national health programmes.

3.3 Affective Domain

The student should be able to:

- Demonstrate ability to communicate to patients in a most, respectful, nonthreatening, non-judgmental and empathetic manner.

3.4 Integration

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

Internal Assessment Examination & Parent Teachers meeting Schedule

INTERNAL ASSESSMENT, MODEL EXAM AND MEDAL EXAM DATES FOR I MBBS (2022-2023 BATCH)

Subject	Exam	1 st Internal assessment	2 nd Internal assessment	3 rd Internal assessment
Anatomy	Theory	20.02.2023	05.06.2023	07.08.2023
	Practical exam	23.02.2023	08.06.2023	10.08.2023
	Viva	23.02.2023	08.06.2023	10.08.2023
Physiology	Theory	21.02.2023	06.06.2023	08.08.2023
	Practical exam	01.03.2023	14.06.2023	16.08.2023
	Viva	01.03.2023	14.06.2023	16.08.2023
Biochemistry	Theory	22.02.2023	07.06.2023	09.08.2023
	Practical exam	02.03.2023	15.06.2023	17.08.2023
	Viva	02.03.2023	15.06.2023	17.08.2023

MODEL EXAM DATES

Dates	Theory exams		Dates
09.10.2023	Anatomy-Paper I	Practical exams	16.10.2023 to 21.10.2023 (6 batches-25 in each)
10.10.2023	Anatomy-Paper II		
11.10.2023	Physiology-Paper I		
12.10.2023	Physiology-Paper II		
13.10.2023	Biochemistry-Paper I		
14.10.2023	Biochemistry-Paper II		

Medal exam dates

Anatomy	25.10.2023
Physiology	26.10.2023
Biochemistry	27.10.2023

Parent-teachers meeting

1 st Parent-Teachers meeting	17.03.2023 & 18.03.2023
2 nd Parent-Teachers meeting	14.07.2023 & 15.07.2023

ACADEMIC CALENDER 2022 – 2023

Date	Events for November 2022	Events for December 2022	Events for January 2023
1		World AIDS day Foundation Course	Sunday Holiday - New year
2		Foundation Course	
3		United Nation's International day of Person's with disabilities Foundation Course	
4		Sunday	
5		Foundation Course	
6	Sunday	Foundation Course	
7		Foundation Course	
8		Foundation Course	Sunday
9		Foundation Course	
10		II Saturday	
11		Sunday	
12	II Saturday	Foundation Course	
13	Sunday	Foundation Course	
14	World Diabetes day Operation Theatre Nursing day	Foundation Course	II Saturday
15		Foundation Course	Sunday Holiday - Pongal
16		Foundation Course	Holiday – Thiruvalluvar Day
17		Foundation Course	Holiday – Uzhavar Thirunal
18		Sunday	

19			
20	Sunday		
21			
22			Sunday
23	I MBBS Inauguration		
24	Foundation Course	IV Saturday	
25	Foundation Course	Sunday Holiday - Christmas	
26	IV Saturday		Holiday – Republic Day
27	Sunday		
28	Foundation Course		IV Saturday
29	Foundation Course		Sunday
30	Foundation Course		
31	--		

Date	Events for February 2023	Events for March 2023	Events for April 2023
1		First Internal Assessment Practical – Physiology & Biochemistry	
2		First Internal Assessment Practical – Physiology & Biochemistry	Sunday World Autism awareness day
3			
4	World Cancer day International Dentist day	World Obesity day	
5	Sunday	Sunday	
6			
7			World Health day
8			II Saturday
9			Sunday
10	National Deworming day		
11	II Saturday	II Saturday World Kidney day	National Safe Motherhood day A day for Parkinson
12	Sunday	Sunday	
13			
14			Tamil New Year's Day Dr. Ambedkar Birthday
15			
16			Sunday
17		I Parent Teacher Meeting	World Haemophilia day
18		I Parent Teacher Meeting	
19	Sunday	Sunday	
20	First Internal Assessment Theory – Anatomy	World Oral health day World Head injury day	
21	First Internal Assessment Theory – Physiology	International day of Forest World Down's syndrome day	

22	First Internal Assessment Theory – Biochemistry	World Water day	IV Saturday Earth day Holiday - Ramzan
23	First Internal Assessment Practical – Anatomy		Sunday
24	First Internal Assessment Practical – Anatomy	World Tuberculosis day National Doctor's day	
25	IV Saturday	IV Saturday	World Malaria day
26	Sunday	Sunday	
27			
28	First Internal Assessment Practical – Physiology & Biochemistry National Science day		
29	-		
30	-		Sunday
31	-		-

Date	Events for May 2023	Events for June 2023	Events for July 2023
1	Holiday – May Day		
2			Sunday
3			
4		Sunday	
5		World Environment day Second Internal Assessment Theory – Anatomy	
6		Second Internal Assessment Theory – Physiology	
7	Sunday	Second Internal Assessment Theory – Biochemistry	
8	World Thalassemia day World Youth red cross day	Second Internal Assessment Practical – Anatomy	II Saturday
9	Mother's day	Second Internal Assessment Practical – Anatomy	Sunday
10		II Saturday	
11		Sunday	World Population day
12	International Nurses day		
13	II Saturday	Second Internal Assessment Practical – Physiology & Biochemistry	
14	Sunday	World Blood donor day Second Internal Assessment Practical – Physiology & Biochemistry	II Parent Teacher Meeting
15		Second Internal Assessment Practical – Physiology & Biochemistry	II Parent Teacher Meeting
16			Sunday
17			
18		Sunday	
19		National Public Health Dentistry day	

20			World Anesthesia and OTT day
21	Sunday	International Yoga day	
22			IV Saturday
23			Sunday
24		IV Saturday	
25	World Thyroid day	Sunday	
26			
27	IV Saturday		
28	Sunday		
29			
30			Sunday
31	World No Tobacco day	-	

Date	Events for August 2023	Events for September 2023	Events for October 2023
1	Breast feeding week	National Nutrition week	Sunday
2	Breast feeding week		World Wildlife week Holiday - Gandhi Jayanthi
3	Breast feeding week	Sunday	
4	Breast feeding week		
5	Breast feeding week	Teacher's day	
6	Sunday Breast feeding week		
7	Breast feeding week Third Internal Assessment Theory – Anatomy		
8	Third Internal Assessment Theory – Physiology	International Literacy day	Sunday
9	Third Internal Assessment Theory – Biochemistry	II Saturday	World Hospice and Palliative day Model Theory Exam
10	Third Internal Assessment Practical – Anatomy	Sunday World Suicide prevention day	World Mental Health day Model Theory Exam
11	Third Internal Assessment Practical – Anatomy		Model Theory Exam
12	II Saturday International Youth day		Model Theory Exam
13	Sunday		Model Theory Exam
14			Model Theory Exam
15	Holiday - Independence Day	Engineer's day	Hand washing day Sunday
16	Third Internal Assessment Practical – Physiology & Biochemistry		Model Practical Exam
17	Third Internal Assessment Practical – Physiology & Biochemistry	Sunday Holiday – Vinayagar Chaturthi	Model Practical Exam
18	Third Internal Assessment Practical – Physiology & Biochemistry		Model Practical Exam
19			Model Practical Exam

20	Sunday		Model Practical Exam
21		International day of Peace	Model Practical Exam
22			Sunday
23		IV Saturday	Holiday Saraswathi & Ayuda Pooja
24		Sunday	World Polio day Holiday - Vijaya Dasami
25	National Eye donation week		Medal Exam
26	IV Saturday		Medal Exam
27	Sunday		Medal Exam
28			IV Saturday
29			Sunday
30			
31			National Unity day

*Medicine is only for those
who cannot imagine
doing anything else*

Dr. Luanda Grazette

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 ---