

# Calendar

## 2009-2010



**INSTITUTE OF MEDICAL SCIENCES & SUM HOSPITAL**  
**K – 8, KALINGA NAGAR, BHUBANESWAR - 751003**

## **PREAMBLE**

The idea of starting a medical college in the capital of Orissa begun from a noble vision to develop and maintain excellence in HRD in health and also to make state of art of the health care at affordable price to the poorest of poor.

Graduate medical curriculum in IMS is oriented towards training students to undertake the responsibilities of a Physician of first contact, who is capable of looking after Preventive, Promotive, Curative and rehabilitative aspects of medicine.

The importance of social factors in relation to the problem of health and diseases has been emphasized and to achieve this goal the educational process has been made community based rather than hospital based.

It also has a vision to develop IMS and SUM hospital into a modern teaching and referral hospital with retaining their rural orientation

The desire to make this institution as a pioneer medical research center and to integrate medical research with different systems of medicine to achieve complementary benefits is reflected in it.

With this basic aspects in mind the entire Syllabus and Curriculum is conceptualized.

The syllabus for MBBS has been developed in consultation with the faculty of the concerned departments and further scrutinized by the Academic Section under the supervision of the Director (Medical) Prof. D.K. Roy.

**List of holidays**

1.	Makara sankranti	14 <sup>th</sup> January
2.	Republic day	26 <sup>th</sup> January
3.	Saraswati Puja	31 <sup>st</sup> January
4.	Maha Sivaratri	23 <sup>rd</sup> February
5.	Holi	12 <sup>TH</sup> March
6.	Sri Ram Navami	3 <sup>rd</sup> April
7.	Raja Sankranti	15 <sup>th</sup> June
8.	Rathayatra	24 <sup>th</sup> June
9.	Janmastami	13 <sup>th</sup> August
10.	Independence day	15 <sup>th</sup> August
11.	Durgapuja	25-28 <sup>th</sup> September
12.	Gandhi Jayanti	2 <sup>nd</sup> October
13.	Kumar Purnima	3 <sup>rd</sup> October
14.	Kali Puja/ Diwali	17 <sup>th</sup> October
15.	Kartika Purnima	2 <sup>nd</sup> November
16.	X-Mas	25 <sup>th</sup> December

The college day will be observed on 5<sup>th</sup> February.

# CONTENTS

1. CHAPTER ONE  
Institute of Medical Sciences & SUM Hospital : A brief history
1. **CHAPTER TWO**  
**Succession list of Principals/Dean**
2. **CHAPTER THREE**
  - a) **Members of teaching**
  - b) **Members of non teaching staffs**
3. CHAPTER FOUR  
Co Curricular activities & Extracurricular activities  
( All committees)
4. CHAPTER FIVE  
Courses running in the college  
MBBS  
MSc.  
MHA  
MPT  
**BMLT**
5. CHAPTER SIX  
Examinations
6. CHAPTER SEVEN  
College rules & Discipline
7. CHAPTER EIGHT
  - a) Hostels ( Boys & girls)
  - b) Rules of the hostels
  - c) Hostel committee
  - d) Students amenities
8. CHAPTER NINE  
Library  
Library committee  
Rules of library
9. CHAPTER TEN  
Our hospital
10. CHAPTER ELEVEN  
Students council

## 11. CHAPTER TWELVE

Lecture theatres

## 12. CHAPTER THIRTEEN

Statistical unit

## 13. CHAPTER FOURTEEN

Residential quarters

## 14. CHAPTER FIFTEEN

Rural /Urban health centres

## About us

The Institute of Medical Sciences with its annexed hospital i.e. SUM Hospital is situated at Kalinga Nagar, Bhubaneswar by the side of National High way No-5 at a distance of 3 km. It is 8 km away from Biju Pattnaik Airport, Bhubaneswar and 12 km from the Bhubaneswar Rly. Station. The central Bus terminus is at a distance of 5 km. The place is well connected by road to all the places.

The campus is in a serene atmosphere with adequate scope for learning and physical fitness for its peaceful ambience. Moreover, large open space in and around the college is under preparation for lush green lawn and flower garden.

The college has two adequately furnished hostel, with modern amenities one for Gents and other for Ladies students. There are facilities for common room with TV, DVD player, indoor games in both the hostels. Gymnasium facilities are also being provided in both the hostels for fitness of the students. Food provided in the hostel is palatable and hygienic. Both the hostels are under the supervision and wardenship of adequately experienced superintendents who are remaining in the college quarters adjacent to the college building to provide on the spot immediate solution to any problem arising in the hostel. There are a number of quarters for faculty members and other supporting staff in the campus.

For adequate clinical knowledge there are at present 350 functioning beds with a provision to increase the bed strength to 750 in near future in the SUM Hospital which is the teaching and training hospital for the Institute of Medical Sciences is adjacent to the college. Further the laboratories functioning in the hospital has highly qualified and experienced staff and modern equipments to undertake various investigations for better diagnosis and patient care, which will help the students in equipping them in knowledge and skill for becoming competent health care providers in future. In addition, the modern equipments and gadgets available in the hospital help in better diagnosis and treatment and make the students competent to use such gadgets.

It is needless to mention that the college has a team of most experienced dedicated and committed group of faculty members with qualification from India and abroad with their

extensive experience and dedication for teaching. The students will benefit in every field of patient diagnosis and management.

The hospital has round the clock emergency services with adequate number of Ambulance. The Intensive Care Unit (ICU) of the hospital has 15 beds with modern life support measures which undertakes care of the critically ill patients. In addition, there is one Neonatal Intensive Care Unit (NICU) with all modern life support equipment with 6 beds to take care of critically ill newborns babies.

There are 4 functioning Operation Theatres with adequate life support measures where various operations are undertaken. There is another emergency operation theatre to provide emergency operation service immediately after receiving one emergency surgical case beyond regular hospital hours. There is a labour room for conducting deliveries under best possible aseptic measures with 5 tables.

Exposure and work experience in these units help a student to become a good confident and competent doctor in future.

The college is MCI recognized since 2007. To add more feathers to the cap, it is not out of the place to mention here that in 2008, the first batch of students of MBBS in their first professional examination have achieved TOP POSITION in Utkal University to which it is affiliated. Here, it is also to mention that there are four Medical Colleges which are affiliated to Utkal University – one of the oldest university of the country with academic par excellence and oldest Govt. Medical College of the state is also affiliated to it.

**List of Principals/Dean**

<b><u>NAME</u></b>		<b><u>From</u></b>	<b><u>To</u></b>
1. Prof Sureswara Mahanty	01.02.05	31.10.07	
2. Prof. Dharendra Kumar Roy	01.11.07	Continuing	

**Members of the teaching staffs**

Not in order of seniority

Dean

Prof. Dharendra Kumar Roy MS (Surg.)

Medical Superintendent

Prof Baikuntha Nath Panda MD (Medicine)

Managing Member

Er. Gopa Bandhu Kar

**Co – Curricular activities & Extracurricular activities**

**Msc. Medical**

Prof. Lalatendu Pattanaik ,                      Course Director

**Examination committee**

Prof D.K.Roy Dean IMS & SH              Chairman  
 Prof Surekha Devi  
 Prof Kiran Duku  
 Prof. B. K. Barik

**Admission Committee**

Prof D.K.Roy Dean IMS & SH              Chairman  
 Prof. Lalatendu Pattanaik  
 Dr. Pusparaj Samantsinhar

**Disciplinary Committee**

1. Prof D.K.Roy Dean IMS & SH              Chairman
2. Prof. Bipul Kanti Patra
3. Prof Rabindra Kumar Bal
4. Prof. Lalatendu Pattanaik
5. Prof. Sudhir Kumar Nanda
6. Prof. Basanta Kumar Panigrahi
7. Prof. Ranjan Kumar Das

**Anti ragging committee**

1. Prof D.K.Roy Dean IMS & SH              Chairman
2. Prof Saileswar Nanda
3. Prof Surekha Devi
4. Prof. Kiran Dukku
5. Prof Prasanna Kumar Mohanty
6. Prof. Susanta Kumar Mohapatra
7. Prof Bijay Kumar Panda
8. Prof Raghmani Mohanty
9. Prof Sukumar Chakrobarty

**Members Academic Council**

**Prof D.K.Roy Dean IMS & SH              Chairman**

&

All the head of departments of different subjects iof MBBS course

**Academic & Proctoral Committee**

**Prof D.K.Roy Dean IMS & SH**

&

All the head of departments of different subjects iof MBBS course              **Chairman**

**Library Committee**

**Prof D.K.Roy Dean IMS & SH**      **Chairman**  
 Professor Lalatendu Pattanaik Vice- Chairman  
 Dr. Pusparaj Samantsinhar              Member

**Officer in charge of Sport**

Dr Biswajit Pal

**Hostel(Boys)**

Warden  
 Superintendent

Professor Lalatendu Pattanaik  
 Dr Kundan Sahoo

**Hostel (Girls)**

Warden  
 Superintendent

Professor Kiran Dukku  
 Dr Rajashree

**Canteen committee**

**Prof D.K.Roy Dean IMS & SH**      **Chairman**  
 Prof. Bijay Kumar Panda  
 Dr. P.C.Panda

## Courses in the college

**College provides teaching for the following examination**

1. M.B;B.S. - 4&1/2 year course with one year rotating housemanship.
2. M.Sc. (Medical) - Three years courses in Anatomy, Physiology, Biochemistry & Microbiology.
3. MPT - Three years course in Physiotherapy after BPT.
4. MHA - Two years course in health administration

# M.B.B.S. course

## INSTITUTE OF MEDICAL SCIENCES & SUM HOSPITAL, BHUBANESWAR COURSE CALENDAR of 1<sup>ST</sup> MBBS STUDENTS, S 'O'A UNIVERSITY

1 <sup>st</sup> Advertisement for Medical Entrance examination (SAAT) .....	12.01.2009
Form submission date (Medical Entrance examination (SAAT)).....	30.03.2009
Medical Entrance examination (SAAT).....	03.05.2009
Publication of result of Medical Entrance examination (SAAT).....	20.05.2009
1 <sup>ST</sup> August 2009 –	Commencement of 1 <sup>st</sup> MBBS (1 <sup>st</sup> & 2 <sup>nd</sup> Semester) Course.
15 <sup>th</sup> Dec. to 31 <sup>st</sup> Dec. 2009	1 <sup>st</sup> Semester end examination. (both Theory & Practical)
5 <sup>th</sup> January 2010	Publication of result of 1 <sup>st</sup> Semester end examination
1 <sup>st</sup> May to 10 <sup>th</sup> May 2010	Test examination 1 <sup>st</sup> MBBS (both Theory & Practical)
15 <sup>th</sup> May 2010	Publication of result of test examination.
20 <sup>th</sup> May 2010	Form fillup for 1 <sup>st</sup> MBBS University examination.
25 <sup>th</sup> June to 20 <sup>th</sup> July	<b>1<sup>st</sup> MBBS University Examination</b> (2 <sup>nd</sup> Semester end examination) (both Theory & Practical)
31 <sup>st</sup> July 2010	Publication of result of 1 <sup>st</sup> MBBS University Exam. (2 <sup>nd</sup> Semester end examination)
1 <sup>st</sup> August 2010	Commencement of <b>2<sup>nd</sup> MBBS Course</b> (3 <sup>rd</sup> , 4 <sup>th</sup> & 5 <sup>th</sup> semester)
1 <sup>st</sup> September 2010	Form fill up for 1 <sup>st</sup> MBBS Supplementary University Exam. (2 <sup>nd</sup> semester end examination) (both Theory & Practical)
15 <sup>th</sup> September to 10 <sup>th</sup> Oct 2010	Supplementary examinations (1 <sup>st</sup> MBBS) .( 2 <sup>nd</sup> semester end suppl. examination) (both Theory & Practical)
25 <sup>th</sup> Oct 2010	Publication of result of 1 <sup>st</sup> MBBS Supplementary University Exam. (both Theory & Practical)
15 <sup>th</sup> Dec. to 31 <sup>st</sup> Dec. 2010	3 <sup>rd</sup> Semester End examination. (both Theory & Practical)
5 <sup>th</sup> January 2011	Publication of result of 3 <sup>rd</sup> Semester End examination
1 <sup>st</sup> May to 15 <sup>th</sup> May 2011	4 <sup>th</sup> semester End examination. (both Theory & Practical)
20 <sup>th</sup> May 2011	Publication of result of 4 <sup>th</sup> semester End examination.
10 <sup>th</sup> to 25 <sup>th</sup> October 2011	Test examination ( 2 <sup>nd</sup> MBBS) (both Theory & Practical)
30 <sup>th</sup> October 2011	Publication of Test examination result.
7 <sup>th</sup> – 10 <sup>th</sup> November 2011	Form fill up for 2 <sup>nd</sup> MBBS University Examination ( 5 <sup>th</sup> semester end examination)
5 <sup>th</sup> January to 5 <sup>th</sup> February 2012	2 <sup>nd</sup> MBBS University Examination (5 <sup>th</sup> semester end Examination) (both Theory & Practical)

20 <sup>th</sup> Feb 2012	Publication of result of 2 <sup>nd</sup> MBBS University Examination. (5 <sup>th</sup> semester end Examination)
21 <sup>st</sup> February 2012	Commencement of <b>3<sup>rd</sup> MBBS Course</b> (6 <sup>th</sup> & 7 <sup>th</sup> Semester)
20 <sup>th</sup> March 2012	Form fill up for 2 <sup>nd</sup> MBBS Supplementary University Exam.
20 <sup>th</sup> April to 19 <sup>th</sup> May 2012	Supplementary examinations (2 <sup>nd</sup> MBBS) V th semester end supplementary examination (both Theory & Practical)
30 <sup>th</sup> May 2012	Publication of result of 2 <sup>nd</sup> MBBS Supplementary University Exam. ( 5 <sup>th</sup> semester end suppl. examination)
1 <sup>st</sup> July to 15 <sup>th</sup> July 2012	6 <sup>th</sup> semester end examination (both Theory & Practical)
20 <sup>th</sup> July 2012	Publication of result of 6 <sup>th</sup> semester end examination.
10 <sup>th</sup> to 25 <sup>th</sup> October 2012	Test examination ( 3 <sup>rd</sup> MBBS) (both Theory & Practical)
30 <sup>th</sup> October 2012	Publication of result of test examination.
7 <sup>th</sup> to 10 <sup>th</sup> November 2012	Form fill up for 3 <sup>rd</sup> MBBS University Examination( 7 <sup>th</sup> semester end examination)
5 <sup>th</sup> January to 30 <sup>th</sup> January 2013	3 <sup>rd</sup> MBBS University Examination(7 <sup>th</sup> semester end examination) (both Theory & Practical)
20 <sup>th</sup> Feb 2013	Publication of result (3 <sup>rd</sup> MBBS) (7 <sup>th</sup> semester end examination)
21 <sup>st</sup> February 2013	Commencement of <b>Final MBBS Course</b> ( 8 <sup>th</sup> & 9 <sup>th</sup> semester)
15 <sup>th</sup> March 2013	Form fillup for 3 <sup>rd</sup> MBBS Supplementary University Exam. (7 <sup>th</sup> semester end suppl. examination)
15 <sup>th</sup> April to 10 <sup>th</sup> May 2013	3 <sup>rd</sup> MBBS Supplementary examinations (7 <sup>th</sup> semester end suppl. examination)) (both Theory & Practical)
20 <sup>th</sup> May 2013	Publication of result of 3 <sup>rd</sup> MBBS Supplementary University Exam. (7 <sup>th</sup> semester end suppl. examination))
1 <sup>st</sup> July to 20 <sup>th</sup> July 2013	8 <sup>th</sup> semester end examination (both Theory & Practical)
25 <sup>th</sup> July 2013	Publication of result of 8 <sup>th</sup> semester end examination.
10 <sup>th</sup> to 30 <sup>th</sup> October 2013	Test examination ( Final MBBS) (both Theory & Practical)
5 <sup>th</sup> November 2013	Publication of result of test examination.
10 <sup>th</sup> to 15 <sup>th</sup> November 2013	Form fill up for Final MBBS University Exam.
5 <sup>th</sup> January to 5 <sup>th</sup> February 2014	Final MBBS University Examination(9 <sup>th</sup> semester end Exam) (both Theory & Practical)
15 <sup>th</sup> Feb 2014	Publication of result (Final MBBS) (9 <sup>th</sup> semester end Exam)
10 <sup>th</sup> March 2014	Form fillup for 3 <sup>rd</sup> MBBS Supplementary University Exam.
10 <sup>th</sup> April to 10 <sup>th</sup> May 2014	Supplementary examinations (Final MBBS) (9 <sup>th</sup> semester end suppl. Exam) (both Theory & Practical)
25 <sup>th</sup> May 2014	Publication of result of Final MBBS Supplementary University Exam(9 <sup>th</sup> semester end suppl. Exam)
20 <sup>th</sup> February 14 to 19 <sup>th</sup> February 2015	Rotatory Houseman ship/ Internship. For Regular batch
1 <sup>st</sup> June 2014 to 31 <sup>st</sup> May 2015	Rotatory Houseman ship/ Internship. For Irregular batch

MBBS course consists of 4 ½ years which is divided into four parts as per below

<u>Sl No.</u>	<u>Subject</u>	<u>Pages</u>
---------------	----------------	--------------

**A) First Professional**

1. Human Anatomy
2. Human Physiology & Biophysics
3. Biochemistry

**First Professional Examination at the end of 2<sup>nd</sup> Semester**

**B) Second Professional**

4. Pharmacology
5. Forensic Medicine & Toxicology
6. Pathology
7. Microbiology

**Second Professional Examination at the end of 5<sup>th</sup> Semester**

**Final Professional (Part – I)**

8. Community Medicine (S.P.M)
9. Ophthalmology
  1. Otto-Rhino- Laryngology (ENT)

**Final Professional (Part – I) Examination at the end of 7<sup>th</sup> Semester**

**Final Professional (Part – II)**

11. Medicine
12. Paediatrics
13. Surgery & Allied Specialities
14. Obstetrics & Gynaecology

**Final Professional (Part – II) Examination at the end of 9<sup>th</sup> Semester**

In addition Mid-Semester, End – Semester Examinations and End – posting assessments are held regularly.

***The total weightage to the internal assessment is 20 % both in theory & practical / clinical assessment.***

**Goals and objectives of undergraduate course (MBBS)**

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

1. Diagnose & manage common health problems of the individual and the community appropriate to his/her position as a member of the health team at primary, secondary and tertiary levels;
2. Be competent to practice preventive, promotive, curative, & rehabilitative, medicine in respect to the commonly encountered health problems;
3. Practice Evidence Based Medicine, appreciating the rationale for different therapeutic modalities and be familiar with the administration of “essential drugs” and their common side effects;
4. Appreciate the psycho-social, cultural, economic and environmental factors affecting health, and develop humane attitude towards the patients / relatives, in discharging one’s professional responsibilities;
5. Be familiar with the various National Health Programmes and the ways in which they are being implemented;
6. Acquire basic management skills in the area of materials, financial and human resources;
7. Demonstrate communication skills, both verbal & written to establish effective communication with the clients (patients, relatives, and general public), health team partners and scientific community;
8. Practice medical ethics in patients care, service delivery and research.
9. Develop attitude for self- learning & acquire necessary skills including the use of appropriate technologies, for pursuing self-directed learning for a lifetime.

### **PRESCRIBED TEACHING HOURS FOR DIFFERENT SUBJECTS**

(Following minimum teaching hours are prescribed in various disciplines:)

#### **A. PRE-CLINICAL SUBJECTS : (First Professional 1<sup>st</sup> and 2<sup>nd</sup> Semester)**

Anatomy	650 hrs.
Physiology	480 hrs.
Biochemistry	240 hrs.
Community Medicine	60 hrs.

#### **B. PARA-CLINICAL SUBJECTS : (Second Professional 3<sup>rd</sup> to 5<sup>th</sup> Semester)**

Pathology	300 hrs.
Pharmacology	300 hrs.
Microbiology	250 hrs.

Community Medicine 200 hrs. (including 8 weeks postings of 3 hrs. each )

Forensic Medicine 100 hrs.

Teaching of Para-clinical subjects shall be 4 hrs. per day in 3<sup>rd</sup> Semester and 3 hours / day in 4<sup>th</sup> and 5<sup>th</sup> semesters (see attached time table)

### **C. CLINICAL SUBJECTS (Final Professional Part – I & II – 6<sup>th</sup> to 9<sup>th</sup> Semesters)**

1. Clinical postings as per charts attached.
2. Theory lectures, demonstrations and seminars etc. in addition to clinical postings as under. The clinical lectures to be held from 3<sup>rd</sup> Semester onwards (See attached Time Table)

Gen. Medicine	300 Hours	Gen. Surgery	300 Hours
Paediatrics	100 "	Orthopedics	100 "
T.B. and Chest	20 "	Ophthalmology	100 "
Psychiatry	20 "	ENT	70 "
Skin & STD	30 "	Radiology	20 "
Community Medicine	50 "	Dentistry	10 "
Anaesthesia	20 "	Obst. & Gynae.	300 "
		inclusive	

#### **Note :**

This period of training is minimum suggested. Adjustments where required depending on availability of time be made.

This period of training does not include university examinations period.

Extra time available be devoted to other Sub-specialities.

During Semesters 3 to 9 following clinical postings for each student of 3 hrs. duration is suggested for various departments after introductory course in Clinical Methods in Medicine and surgery of 2 weeks each for the whole class.



**Prescribed Clinical Posting**

Subjects:	3 <sup>rd</sup> Sem. 8 <sup>th</sup> Sem. (Weeks) (Weeks)	4 <sup>th</sup> Sem. 9 <sup>th</sup> Sem. (Weeks) (Weeks)	5 <sup>th</sup> Sem. Total (Weeks)	6 <sup>th</sup> Sem. (Weeks)	7 <sup>th</sup> Sem. (Weeks)			
General	6	-	4	-	4	6	6	26
Medicine								
Paediatrics	-	2	-	2	2	4	-	10
T.B. & Chest	-	2	-	-	-	-	-	02
Skin & STD	-	2	-	2	-	2	-	06
Psychiatry	-	-	2	-	-	-	-	02
Radiology	-	-	-	-	2	-	-	02
Gen. Surgery	6	-	4	-	4	6	6	26
Orthopaedics	-	-	4	4	-	-	2	10
Ophthalmology	-	4	-	4	-	-	2	10
E.N.T	-	4	-	4	-	-	-	08
Obst. & Gynae. and Family Planning	2	4	4	-	4	4	6	24
Comm. Med.	4	4	-	4	-	-	-	12
Casualty	-	-	-	2	-	-	-	02
Dentistry	-	-	-	-	2	-	-	02
<b>Total</b>	<b>18</b>	<b>22</b>	<b>18</b>	<b>22</b>	<b>18</b>	<b>22</b>	<b>22</b>	<b>142</b>

Clinical Methods in Medicine and Surgery for which class will be for 2 weeks each respectively at the start of 3<sup>rd</sup> Semester.

This posting will include training in Radio-diagnosis & Radiotherapy where existent.

This posting includes exposure to Rehabilitation Physiotherapy.

This posting includes exposure to laboratory medicine and infectious diseases.

This posting includes exposure to dressing and Anesthesia.

This includes maternity training and Family medicine and the 3<sup>rd</sup> semester posting shall be in Family Welfare Planning.

### University Examination

- A. **First Professional Examination (At the end of Second Semester)**
- a) Anatomy
  - b) Physiology & Biophysics
  - c) Biochemistry
- B. **Second Professional Examination (At the end of Fifth Semester)**
- a) Pharmacology
  - b) Forensic Medicine
  - c) Pathology
  - d) Microbiology
- D. **Final Professional Examination**
- i. Part – I (End of Seventh Semester)**
    - a) Ophthalmology
    - b) Oto Rhino Laryngology
    - c) Community Medicine including Humanities
  - ii. Part – II (End of Ninth Semester)**
    - a) Medicine including Psychiatric, Dermatology & STD.
    - b) Surgery including Orthopaedics, Anesthesiology, Dental Sciences & Radiology
    - c) Obstetrics & Gynaecology
    - d) Paediatrics including Neonatology
- Objective, Examination regulation & routine of MBBS course

### ANATOMY

Details of Course Curriculum for MBBS students during Semester I & II (2 Semesters), total duration of 1 year.

Course commences from 1<sup>st</sup> August every year and ends on 15<sup>th</sup> June following year.

- 1) Educational Objectives for MBBS students.
- 2) Prescribed teaching hours for Anatomy (I & II Semester).
- 3) Detailed course distribution for MBBS students with respect to Theory & Practical classes.
- 4) Timetable of Theory, Tutorials, Demonstrations, Practical & Seminars.
- 5) Internal assessment examination, University Examination Regulations.
- 6) Prescribed Texts and Reference Books.

## I. OBJECTIVES

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

- Comprehend the normal disposition; inter relationships, gross, functional and applied anatomy of the various structures in the body.
- Identify the microscopic structures of various tissues, and organs in the human body and correlate the structure with the functions as a prerequisite for understanding the altered state in various disease processes.
- Comprehend the basic structure and connections between the various parts of central nervous system so as to analyze the integrative & regulative functions on the organs and systems. He/ She should be able to locate the site of gross lesions according to the deficits encountered.
- To understand the basic principles of embryology including genetic inheritance and stages involved in development of the organs & systems from the time of conception till birth. The student should recognize the critical stages of normal development and the effects of common teratogens, genetic mutation and environmental hazards on it. He / She should be able to explain the developmental basis of the occurrence of major variations, abnormalities and congenital anomalies.

**Prescribed Teaching hours in Anatomy (I & II Semester): 650 hrs.**

This includes :

1.	Theory lectures	- 210 hrs.
2.	Demonstrations, Practical, Tutorials & Seminars	- 440 hrs.
<hr/>		
Total		- 650 hrs.

### N.B

1. Didactic Lectures should not exceed one third of time schedule.
2. Demonstration, Practicals, Dissection & Seminar etc. should be two third of time schedule.

### **EXAMINATION REGULATIONS:**

Total Marks – 200

	Theory	Practical	Oral	Total
A. Internal Assessment:	20	20		40
B. University Examination: 2 papers (50 X 2)	100	40	20	160

A. Internal Assessment: 40 Marks

(Internal Assessment is based on day to day assessment and regular periodic examination. The student should secure 50% total marks fixed for internal assessment to be eligible to appear for Ist Professional Examination.)

B. UNIVERSITY EXAMINATIONS : 160 Marks

Theory 100 Marks  
 Paper I – 50 marks.  
 Paper II – 50 marks.

Duration 2 ½ hours each.

Each paper must have applied questions of 10 marks each.

Paper – I General Anatomy, General Histology, Cross sectional and Gross Anatomy of body above diaphragm (excluding diaphragm ) brain and spinal cord.

Paper II – Principle of human genetics and Karyotyping. Gross Anatomy of Anatomical Structure below diaphragm including diaphragm.

Embryology and Histology of organs should be included in both papers.

Practical 40 Marks

Oral 20 Marks

#### CRITERIA FOR APEARING UNIVERSITY EXAMINATION

1. 75 % attendance in theory & 80 % attendance in practical.
2. 50 % marks in internal assessment in theory & practical separately.

#### CRITERIA FOR PASSING:

A candidate must secure 50% in aggregate with minimum of 50% in theory and oral and obtain a minimum of 50% in Practical.

### **MBBS Semester curriculum for Physiology**

**Prescribed Teaching hours in Physiology (I & II Semester): 480 hrs.**

#### **Goal**

#### **Knowledge**

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

1. Explain the normal functioning of all the organ systems of the body and their interactions.
2. Narrate the contribution of each organ system to the maintenance of homeostasis.
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.



3. Basic and clinical aspects of enzymology and regulation of enzymatic activity;
4. Digestion and assimilation of nutrients and consequences of malnutrition;
5. Integration of the various aspects of metabolism, and their regulatory pathways;
6. Biochemical basis of inherited disorders and their associated sequelae;
7. Mechanisms involved in maintenance of body fluid and pH homeostasis;
8. Molecular mechanisms of gene expression and regulation, the principles of genetic engineering and their application in medicine;
9. Molecular concepts of body defence and their application in medicine;
10. Biochemical basis of environmental health hazards; and biochemical basis of cancer and carcinogenesis, principles of metabolism, and detoxication of xenobiotics.
11. Principles of various conventional and specialized laboratory investigations and instrumentation, analysis and interpretation of a given data; the ability to suggest experiments to support theoretical concepts and clinical diagnosis.

### **Skills**

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

1. Make use of conventional techniques/ instruments to perform biochemical analysis relevant to clinical screening and diagnosis
2. Analyze and interpret investigative data
3. Demonstrate the skills of solving clinical problems and decision-making.

### **EXAMINATION REGULATIONS :**

Total Marks – 200

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
<b><u>A. Internal Assessment</u></b> :	<b>20</b>	<b>20</b>	-	<b>40</b>
<b><u>B. University Examination</u></b> :	<b>100</b>	<b>40</b>	<b>20</b>	<b>160</b>
<b><u>(II Semester) 2 papers (50X2)</u></b>				

#### **A. Internal Assessment**

**40 Marks**

Theory - 20 Marks

Practical - 20 Marks

This is based on day-to-day assessment in practical & tutorial classes by record checking & home assignments and periodic examinations – Ist Semester & test examination.

#### **B. University Examination :**

**160 Marks**

##### **Theory**

**Total Marks 100**

Paper – I

Paper – II

(50 marks each of duration 2 ½ hrs.)

**MODEL THEORY QUESTIONS :****Paper – I & II****Total Marks 50 (each)**

1. Long questions (Modified essay type)	15
2. Long questions with alternate choice	15
3. Short answer questions	10
4. Applied aspects of Biochemistry question	10

**PRACTICAL :****Total Marks 40**

Pathological Urine examination	15
Quantitative estimations	20
Practical record maintenance	5

**VIVA (ORAL)****Total Mark 20**

Eligibility for appearing University examinations : Attendance 75 %, Marks 50% in Internal assessment..

**Criteria for Passing in the University Examination :**

- Minimum 50% in aggregate
- Minimum 50% in Theory including oral.
- Minimum 50% in Practical.

**MBBS Semester curriculum for Pharmacology****Prescribed Teaching hours in Pharmacology (III, IV & V Semester): 300 hrs.****Course Curriculum (Pharmacology) For MBBS Students****OBJECTIVES**

MBBS student, at the end of one and a half years training in Pharmacology, is expected to:

1. Understand pharmacokinetic and pharmacodynamic principles involved in the use of drugs
2. Understand and identify the various factors that can affect the action of drugs
3. Know the various routes of drug administration with advantages and disadvantages of the various routes
4. Undertake dosage calculations as appropriate for the patient and be able to select the proper drug and dose for the at risk population i.e. patients with kidney or liver disease, elderly, pregnant and lactating females, and children.
5. Understand the importance of rational prescribing of drugs and the concept of essential drugs
6. To be able to identify and monitor adverse drug reactions (ADRs) and appreciate the importance of ADR reporting
7. Know the drugs used in systemic illnesses, infections and chemotherapy etc. with main mechanism(s) of action, pharmacokinetics, uses, side-effects and indications

8. Understand the principles and practice of pharmacy
9. Understand the methods in experimental pharmacology, principles of bioassay and be able to correlate drug effects with the action of drugs at the receptors.
10. Have knowledge of common drugs and doses used for different ailments
11. Have an understanding of basic mechanism by which a drug acts
12. Should be able to select rationally from the available drugs

#### EXAMINATION REGULATION

Total Marks – 150

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
<b>A. Internal Assessment :</b>	<b>15</b>	<b>15</b>	<b>-</b>	<b>30</b>
<b>B. University Examination : 80</b>		<b>25</b>	<b>15</b>	<b>120</b>
<b>(V Semester)</b>		<b>2 papers (40X2)</b>		

#### **A. Internal Assessment**

**Total marks - 30**

Marks : Theory 15  
Practical 15

Procedure : III Semester Examination &  
IV Semester Examination are for internal assessment

**Criteria to appear at University Examination (V Semester Examination) :-** 50% marks to be obtained in III & IV semester examination with, 75% attendance in the theory and 80% in practical classes.

#### **B. University Examination (V semester Examination) Total marks- 120**

**Theory:** - (Two papers, 40 marks each)

**80 Marks**

**Practical**

**Total Marks 25**

**Oral**

**Total Marks 15**

#### **Criteria for Passing in the University Examination :**

Minimum 50% in aggregate

Minimum 50% in Theory including Oral.

Minimum 50% in Practical.

**MBBS Semester curriculum**  
**for Forensic Medicine & Toxicology**

**Prescribed Teaching hours in Forensic Medicine & Toxicology (III, IV & V Semester):**  
**100 hrs.**

**FORENSIC MEDICINE & TOXICOLOGY**

OBJECTIVES: -

At the end of the course in the forensic medicine, the MBBS student will be:

- 1 Able to understand the basic concept of the subject and its importance.
- 2 Aware of inquest, legal and court procedures applicable to medico-legal and medical practice.
- 3 Able to perform medicolegal postmortem/autopsy findings and results of other relevant investigations for logical conclusion and framing the opinion on cause, manner and time since death.
- 4 Able to reserve and despatch relevant various articles, trace evidences including viscera in poisoning cases in medicolegal cases/ autopsy examination and handing over the same to appropriate agencies.
- 5 Able to identify the medicolegal cases, carryout medical examination in such cases and prepare medicolegal report as per the law of the land.
- 6 Aware of code of ethics, duties and rights of medical practitioner, duties towards patients and community, punishment on violation of code of ethics, various forms of medical negligence, duties towards his professional colleagues.
- 7 Able to diagnose and manage the cases of acute and chronic poisoning and can carryout medicolegal duties.
- 8 Aware of general principles of analytical, environmental, occupational toxicology including toxicovigilance and predictive toxicology.
- 9 Aware of latest advances in Forensic Medicine & Toxicology and their medicolegal importance.

**III - OBJECTIVE OF INTERN TRAINING IN F.M.T. :-**

There should be a training to intern in Forensic Medicine as prescribed in M.C.A. booklet. The interns are to be posted to the Casualty Dept. of College Hospital, and they should be attached under Dept. of Forensic Medicine with the following objectives.

1. To identify Medico- legal problems in the Hospital and in general practice.
2. To identify and learn medico legal responsibilities of a medical man in various situation of hospital management.
3. To be able to learn and to diagnose the management of basic poisoning conditions in the community.
4. To learn how to handle case of Sexual assault.
5. To be able to prepare medico legal reports in various medico legal situations.

To learn various medico legal postmortem procedures and formalities during its performance by police and the medical officer at morgue

**EXAMINATION REGULATIONS:**

Total Marks – 100

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
A. Internal Assessment :	10	10	-	20
B. University Examination : One paper	40	30	10	80
A. Internal Assessment				20 Marks
Theory	10 marks			
Practical		10 marks		

Student must secure at least 50% of the total marks fixed for the internal assessment in order to be eligible to appear in the University Examination.

**Criteria to appear at University Examination (V Semester Examination) :-** 50% marks to be obtained in III & IV semester examination with, 75% attendance in the theory and 80% in practical classes.

<b>B. University Examination</b>		<b>80 Marks</b>
Theory	40 marks	
Oral	10 marks	
Practical	30 marks	

**Criteria for passing :**

The candidate must obtain 50% in aggregate with a minimum of 50% in the theory including oral and a minimum of 50% in practical/clinical.

**MBBS Semester curriculum for Pathology**

**Prescribed Teaching hours in Pathology (III, IV & V Semester): 300 hrs.**

**OBJECTIVE**

A MBBS student at the end of training in Pathology will be able to:

1. Understand the concepts of cell injury and changes produced thereby in different tissues and organs and the body's capacity for healing.
2. Understand the normal homeostatic mechanisms, the derangements of these mechanism and the effects on human systems.
3. Understand the etiopathogenesis, the pathological effects and the clinico-pathological correlation of common infectious and non-infectious diseases.
4. Understand the concept of neoplasia with reference to the etiology, gross and microscopic features, diagnosis and prognosis in different tissues and organs of the body.

5. Correlate normal and altered morphology (gross and microscopic) of different organ systems in different diseases to the extent needed for understanding of disease processes and their clinical significance.
6. Have a knowledge of common immunological disorders and their resultant effects on the human body.
7. Have an understanding of the common haematological disorders and the investigations necessary to diagnose them and determine their prognosis.
8. Perform and interpret in a proper manner the basic clinico-pathological procedures.
9. Know the principles of collection, handling and dispatch of clinical samples from patients in a proper manner.

#### **V-EXAMINATION REGULATIONS:**

Total Marks – 150				
	Theory	Practical	Oral	Total
<b>A. Internal Assessment :</b>	15	15	-	30
<b>B. University Examination : 80</b>	<b>25</b>	<b>15</b>		<b>12 2 papers</b>
	<b>(40X2)</b>			
(i) <b>Internal Assessment –</b>		Theory	15 Marks	
		Practical	15 Marks	

#### **Criteria to appear at University Examination:**

Students must secure at least 50% marks of the total marks fixed for internal assessment in the subject to appear in the University Examination.

#### **(i) University Examination:**

##### **Theory**

(Two papers of 40 marks each.)

80

#### **MBBS Semester curriculum for Microbiology**

**Prescribed Teaching hours in Pathology (III, IV & V Semester): 300 hrs.**

#### **MICROBIOLOGY**

#### **OBJECTIVES**

##### **(A) Knowledge**

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

1. state the infective micro-organisms of the human body and describe the host parasite relationship
2. list pathogenic micro-organisms and describe the pathogenesis of the diseases produced by them
3. state or indicate the modes of transmission of pathogenic and opportunistic organisms and their sources, including insect vectors responsible for transmission of infection
4. describe the mechanisms of immunity to infection
5. acquire knowledge on suitable antimicrobial agents for treatment of infection and scope of immunotherapy and different vaccine available for prevention of communicable diseases

6. apply methods of disinfection and sterilization to control and prevent hospital and community acquired infections
7. recommend laboratory investigations regarding bacteriological examination of food, water, milk and air

### **(B) Skills**

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

1. plan and interpret laboratory investigations for the diagnosis of infectious diseases and to correlate the clinical manifestations with the etiological agents
2. identify the common infectious agents with the help of laboratory procedures and use antimicrobial sensitivity tests to select suitable antimicrobial agents
3. use the correct method of collection, storage and transport of clinical material for microbiological investigations

### **EXAMINATION REGULATION**

	Theory	Practical	Oral	<u>Total Marks – 150</u>
A. Internal Assessment :	15	15	-	30
B. University Examination : Two papers (40X2)	80	25	15	120

### **Criteria for appearing University examination:**

1. 50% mark in both theory and practicals in Internal.
2. Percentage of attendance must be 75%. Minimum percentage in practical is 80%.

### **Criteria of Passing :**

Practical – Minimum 50% marks to be secured.

**Theory + Oral – Minimum 50% marks.**

Aggregate - 50% Marks

DEPARTMENT OF COMMUNITY MEDICINE

### **MBBS Semester curriculum for Community Medicine**

**Prescribed Teaching hours in Ophthalmology (I to IX Semester): 310 hrs.**

**COMMUNITY MEDICINE (S.P.M.)**

Community medicine teaching will involve 3 phases, Phase – I in pre-Clinical year i.e. 1<sup>st</sup> and 2<sup>nd</sup> semester. Phase –II in Para – Clinical years, i.e. 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> semester. Phase –III in Clinical years starting from 6<sup>th</sup> semester to 9<sup>th</sup> semester.

### **OBJECTIVES**

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

1. Describe the concepts of community health and measures of levels of health.
2. Describe the epidemiological methods.
3. Apply appropriate epidemiological methods to communicable and non-communicable diseases in the hospital and community situations.
4. Use epidemiological tools to make rational decisions relevant at the individual and community levels.
5. Describe and use basic bio-statistical methods.
6. Select, use and interpret bio-statistical methods to make inferences from hospital/community data.
7. Describe the demographic pattern of the country and its relation to health.
8. Define vital statistics and describe the various methods that are used to collect vital statistics in India.
9. Describe environmental hazards - inside the home, at the workplace and in the community.
10. Describe and analyze the importance of water and sanitation in human health.
11. Suggest feasible methods of environmental control at household and community levels.
12. Describe common occupational hazards in industries, agriculture, and services available to industrial workers.
13. Describe feasible methods of control of occupational hazards.
14. Plan, collect, analyze, interpret and present data from a hospital/community survey.
15. Describe and analyze the roles of the individuals, family, community and socio-cultural milieu in health and disease.
16. Diagnose and manage maternal and child health problems and advise couples and the community on the family planning methods available.
17. Diagnose and manage common nutritional problems at the individual and community levels.
18. Describe the methods of nutritional assessment in the community.
19. Describe the important/common health problems in India.
20. Describe the School Health Programme
21. Describe the health information system in India with reference to the Management Information System.
22. Describe and evaluate the National Health Programmes.
23. Describe the health care delivery system in India.
24. Describe the organization and functions of the health care team at Primary Health Centre, Community Health Centre and District levels.

25. Interact with other members of the health care team and participate in the organization of health care services and implementation of National health Programmes.
26. Plan and implement measures for disaster management.
27. Describe the principles and components of primary Health Care, National Health Policy and its implementation in the country.
28. List the goals/ targets set to achieve Health for All by 2010 A.D.
29. Diagnose and manage common health problems and emergencies at the individual, family and community levels keeping in mind the existing health care resources, prevailing socio-cultural beliefs and family resources.
30. Plan and implement an intervention programme with community participation.
31. Plan and implement, using simple audiovisual aids, a health educational programme and carry out its evaluation.

### **EXAMINATION REGULATION**

Total Marks – 200

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
<b>A. Internal Assessment :</b>	<b>20</b>	<b>20</b>	<b>-</b>	<b>40</b>
<b>B. University Examination : 20</b>		<b>30</b>	<b>10</b>	<b>160</b>
		<b>Two papers (60X2)</b>		

**(A) Internal Assessment**

Theory      20 Marks  
Practical    20 Marks

**(B) University Examination:**

**Theory**

Paper –I

60 marks

Paper –II

60 marks

**Practical and Clinical (Community training)**

30 Marks

**Viva (Oral)**

**10 marks**

**Criteria to appear at University examination.**

The candidate must score :

- (a) 50% marks in both theory and practical examination of internal assessment.

- (b) 75% of attendance in theory and 80% attendance in the practical class/  
community training.

**Criteria for Passing:**

To pass a candidate must secure 50% in aggregate with minimum of 50 % in theory including oral and a minimum of 50% in clinical.

**MBBS Semester curriculum for Ophthalmology**

**Prescribed Teaching hours in Ophthalmology (III to VII Semester): 100 hrs.**

**OPHTHALMOLOGY**

**OBJECTIVES**

**Knowledge**

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

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

**Skills**

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

1. Elicit a history pertinent to general health and ocular status
2. Perform diagnostic procedures such as visual acuity testing, examination of the eye, tonometry, staining for corneal pathology, confrontation perimetry, subjective refraction including correction for presbyopia and aphakia, direct ophthalmoscopy, conjunctival smear examination and cover test
3. Diagnose and treat common problems affecting the eye
4. Interpret ophthalmic signs in relation to common systemic disorders

5. Perform therapeutic procedures such as subconjunctival injection, corneal/conjunctival foreign body removal, nasolacrimal duct syringing and tarsorrhaphy
6. Provide first aid in major ophthalmic emergencies
7. Organise community surveys for visual health
8. Organise primary eye care services through Primary Health Centers
9. Use effective means of communication with the public and individuals to motivate them for surgery for cataract, glaucoma etc and for eye donation
10. Establish rapport with his seniors, colleagues and paramedical workers, so as to effectively function as a member of the eye care team

#### **V -EXAMINATION REGULATION**

Total Marks – 100

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
<b>A. Internal Assessment :</b>	<b>10</b>	<b>10</b>	-	<b>20</b>
<b>B. University Examination : 40</b>		<b>30</b>	<b>10</b>	<b>80</b>
	(VII Semester Exam.)	(One paper)		
<b>(A) Inter Assessment :</b>				<b>Total Marks -</b>
<b>20</b>				
	Theory	10 Marks		
	Practical	10 Marks		

DEPARTMENT OF OTO-RHINO-LARYNGOLOGY (ENT)

**MBBS Semester curriculum for OTO-RHINO-LARYNGOLOGY (ENT)**

**Prescribed Teaching hours in Oto Rhino laryngology (III to VII Semester): 100 hrs.**

#### **OBJECTIVES**

At the end of the otorhinolaryngology posting. The student shall be able to

1. Examine and diagnosis common ear, nose, and throat problems
2. Suggest common investigative procedures and their interpretation to diagnose and manage the patient.
3. Treat the common ear, nose, throat and neck problem at primary care centre, while treating the patient. He should know the rational use of commonly used design with their adverse effects.

4. Train to perform various minor surgical procedures like ear syringing nasal packing and biopsy procedure.
5. Assist common surgical procedures such as tonsillectomy, mastoidectomy, septoplasty, tracheostomy and endoscopic removal of foreign bodies.
6. Have awareness of Preventive otology and head & neck cancer for public guidance.

### **Clinical Training :**

The students would be posted in the ENT department ( OPD and Ward ) for a total period of 2 months on rotation basis . Here they would learn the basic ENT examination, become familiarized with diagnosing the common ENT diseases and learning the elementary management, including communication skills. The clinical training would consist of :

- 1) two classes on introduction to the clinical aspects of ENT including proper Ear, Nose and throat examination
- 2) Bed side teaching and case discussion on common ENT conditions like CSOM, Deviated Nasal septum, Nasal polyps, Cancer larynx etc
- 3) Orientation to commonly used ENT instruments and X-Rays in ENT practice
- 4) Exposure to commonly done OPD procedures like nasal packing, ear packing, cautery etc
- 5) Exposure to selective operative procedures like tracheostomy, tonsillectomy, septoplasty, Nasal polypectomy etc
- 6) Preventive Otology and head & neck cancer

### **EXAMINATION REGULATIONS :**

Total Marks – 100

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
<b>A. Internal Assessment :</b>	<b>10</b>	<b>10</b>	<b>-</b>	<b>20</b>
<b>(VI Semester Exam.)</b>				
<b>B. University Examination :</b>	<b>40</b>	<b>30</b>	<b>10</b>	<b>80</b>
<b>(VII Semester Exam.) (One papers)</b>				

**A. Internal Assessment : Total Marks - 20**

**Theory 10 marks** (all short questions )

**Clinical 10 Marks**

Case 5 Marks

Instruments 5 Marks

N.B. : This is based on day to day assessment, evaluation of assignments, regular periodic Examination and day-to-day clinical works.

The student must secure 50% of total marks fixed for the internal assessment, 75% attendance in theory and 80% attendance in clinical classes to be eligible to appear in the IIIrd professional (Part -I) examination.

**B. University Examination :****Total Marks- 80**

<b>Theory(One Paper)</b>	<b>40 Marks</b>	Duration 1.5 hours
<b>Oral</b>	<b>10 Marks</b>	
<b>Clinical</b>	<b>30 Marks</b>	

* Two cases (10 marks each)	20 Marks
* Instrument	5 Marks
* X – Ray	3 Marks
* Record	2 Marks

**Criteria for Passing in University Examination :**

To pass a candidate must secure 50% in aggregate with a minimum of 50% in theory including oral and a minimum of 50% in clinical.

**MBBS Semester curriculum for Medicine and allied subjects**

**Prescribed Teaching hours in Medicine and allied subjects (III to XI Semester): 370 hrs.**

**MEDICINE and ALLIED SUBJECTS**  
**(Medicine Chest & T.B. , Psychiatry & Skin and S.T.D.)**

**OBJECTIVES**

The goal of the undergraduate training in general medicine is to provide such knowledge, skills and behavioral attribute that may enable the graduating physician to function effectively as a Primary Care Physician in a community setting. At the end of training, each student must be able to:

1. Understand the various manifestations of infectious and non-infectious diseases.
2. Understand the basic principle of history taking and clinical examinations.
3. Elicit a detailed history, perform a thorough physical examination including mental status
4. examination and examination of an unconscious patient.
5. Correlate the clinical symptoms and physical signs to make a provisional anatomical, physiological, etiopathological diagnosis along with the functional disability and suggest relevant investigation.
6. Interpret reasonably the relevant investigations.
7. Professionally present and discuss the principles involved in the management of the patient, initiate first line management and outline short-term and long term management.



- (b) Describe the common pediatrics disorder and emergencies in terms of epidemiology, etiopathogenesis, clinical manifestations, diagnosis, rational therapy and rehabilitation;
- (c) State age related requirements of calories, nutrients, fluids, drugs etc. in health and disease;
- (d) Describe preventive strategies for common infectious disorders, malnutrition, genetic and metabolic disorders, poisonings, accidents and child abuse;
- (e) Outline national programmes relating to child health including immunization programmes;

### **Skills**

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

- (a) Take a detailed pediatrics history, conduct an appropriate physical examination of children including neonates, make clinical diagnosis, conduct common bedside investigative procedures, interpret common laboratory investigations and plan and institute therapy;
- (b) Take anthropometric measurements, resuscitate newborn infants with bag and mask at birth, prepare oral rehydration solution, perform tuberculin test, administer vaccines available under current national programmes, start an intravenous line and provide naso-gastric feeding, observe venesection and intra-osseous infusion if possible.
- (c) Conduct diagnostic procedures such as lumbar puncture, bone marrow aspiration, pleural tap and ascitic tap; observe liver and kidney biopsy.
- (d) Distinguish between normal newborn babies and those requiring special care and institute early care to all new born babies including care of pre-term and low birth weight babies, provide correct guidance and counselling in breast-feeding.
- (e) Provide ambulatory care to all sick children, identify indications for specialized/inpatient care and ensure timely referral of those who require hospitalization.

### **Integration**

The training in pediatrics should be done in an integrated manner with other disciplines, such as Anatomy, Physiology, Forensic Medicine, Community Medicine, Obstetrics and Physical Medicine, curative and rehabilitative services for care of children both in the community and at hospital as part of a team.

### **EXAMINATION REGULATIONS**

				<b>Total Marks - 100</b>
	<b>Theory</b>	<b>Practical/Clinical</b>	<b>Oral</b>	<b>Total</b>
<b>A. Internal Assessment :</b>	<b>10</b>	<b>10</b>	<b>-</b>	<b>20</b>
<b><u>5<sup>th</sup> or 6<sup>th</sup> and 7<sup>th</sup> or 8<sup>th</sup> semester examination.</u></b>				
<b>B. University Examination :</b>	<b>40</b>	<b>30</b>	<b>10</b>	<b>80</b>
9 <sup>th</sup> semester examination.				
<b>A. Internal Assessment :</b>				<b>20 marks</b>
<b>Theory</b>				<b>10 marks.</b>
<b>Practical/Clinical</b>				<b>10 marks</b>
<b>B. University Examination :</b>				<b>80 marks</b>
<b>Theory(one paper)</b>				<b>40 marks</b>
<b>Practical</b>				<b>30 marks</b>

2 general Paediatrics  
cases(10x2) – 20 marks  
New born OSCE- 10 marks

**Viva (Oral) 10 marks.**

Emergency Drugs  
Instruments  
X-Ray  
OSCE

**Criteria to appear in the University Examination :**

- The candidate must secure 50% marks in the internal assessment examination for theory and practical.
- The candidate must obtain 75% attendance in theory and 80%attendance in clinical classes.

**Criteria to pass in the University Examination:**

- 50% marks in aggregate.
- 50% marks in theory including oral.
- 50% marks in practical/clinical.

**DEPARTMENT OF SURGERY  
AND ALLIED SUBJECTS**

**( General Surgery, Orthopaedics, Anaesthesiology, Dental Surgery,  
Radiodiagnosis and Radiotherapy)**

**MBBS Semester curriculum for Surgery & allied subjects**

**Prescribed Teaching hours in Surgery and Allied subjects (III to IX Semester): 450 hrs.**

(General Surgery, Orthopedics', Anesthesiology, Dental Surgery, Radio diagnosis and Radiotherapy)

**OBJECTIVES**

**Knowledge**

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

1. Describe aetiology, pathophysiology, principles of diagnosis and management of common surgical problems including emergencies, in adults and children:
2. Define indications and methods for fluid and electrolyte replacement therapy including blood transfusion:
3. Define asepsis, disinfection and sterilization and recommend judicious use of antibiotics:
4. Describe clinical features and risk factors of common malignancies in the country and their management including prevention.
5. Enumerate different types of anaesthetic agents, their indications, mode of administration, contraindications and side effects.

## **Skills**

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

1. Diagnose common surgical conditions both acute and chronic, in adult and children;
2. Plan various laboratory tests for surgical conditions and interpret the results;
3. Identify and manage patients of haemorrhagic, septicaemic and other types of shock;
4. Be able to maintain patent air-way and resuscitate a -
  - (i) a critically injured patient;
  - (ii) patient with cardio-respiratory failure;
  - (iii) a drowning case.
5. Monitor patients of head, chest, spinal and abdominal injuries, both in adults and children;
6. Provide primary care for a patient of burns;
7. Acquire principles of operative surgery, including pre-operative, operative and post operative care and monitoring;
8. Treat open wounds including preventive measures against tetanus and gas gangrene;
9. Diagnose neonatal and paediatric surgical emergencies and provide sound primary care before referring the patient to secondary / tertiary centers;
10. Identify congenital anomalies and refer them for appropriate management.

## **Orthopaedics**

An MBBS student should know about the commonly encountered conditions in orthopaedics pertaining to their diagnostic features, basic pathophysiological aspect and the general and basic management strategies. It is expected to learn basic skills such as application of splints, skin and skeletal traction, as well as plaster slab and casts (including special casts such as CTEV cast, hip spica, shoulder spica, cylinder cast, patellar tendon bearing casts).

An MBBS student should know the maneuvers for reduction of common fractures and dislocations such as Colles' fracture, supracondylar fracture of humerus, dislocation of shoulder, elbow and hip etc.

## **OBJECTIVES**

1. Embryology, applied anatomy, physiology, pathology, clinical features, diagnostic procedures and the principles of therapeutics including preventive methods, (medical/surgical) pertaining to musculoskeletal system.
2. Clinical decision making ability & management expertise: Diagnose conditions from history taking, clinical evaluation and investigations and should be able to distinguish the traumatic from infective and neoplastic disorders.
3. Thrust areas
  - a) Pediatric orthopaedics- The student should be exposed to common congenital and developmental disorders such as CTEV (club-Foot), developmental dysplasia of hip, Perthe's disease and infections, and also should acquire adequate knowledge about the principles of management of these disorders.

- b) Orthopaedic oncology- The undergraduate is expected to be familiar with the common tumours encountered in orthopaedic practice. The student should be able to diagnose common bone tumors and should know principles of treatment
- c) Management of Trauma- Trauma in this country is one of the main causes of morbidity and mortality in our demographic statistics. The student is expected to be fully conversant with trauma in its entirety including basic life saving skills, control of hemorrhage, splintage of musculoskeletal injuries and care of the injured spine.
- d) Sports Medicine- The student should know about common orthopaedic pathologies encountered in sportspersons and their diagnostic and preventive aspects.
- e) Physical Medicine and Rehabilitation- The student is expected to be familiar with common orthotic and prosthetic devices and their applications.
- f) Orthopedic Neurology- The student should be exposed to all kinds of nerve injuries as regards their recognition & principles of management, cerebral palsy and acquired neurologic conditions such as post polio residual paralysis .
- g) Disorders of Spine - The student is expected to be familiar with various kinds of spinal disorders such as scoliosis, kypho-scoliosis, spinal trauma, prolapsed intervertebral disc and infections (tuberculosis and pyogenic) as regards their clinical presentations and principles of management.
- h) Radiology- Acquire knowledge about radiology/imaging and should be able to interpret radiographs typical of common orthopaedic pathologies.
4. Patient doctor relation: UG should learn the skills to communicate with the patient and his/her relatives pertaining to the disease condition, its severity and options available for the treatment/ therapy.
5. Preventive Aspect: Undergraduate should acquire knowledge about prevention of some conditions especially in children such as poliomyelitis, congenital deformities, cerebral palsy and common orthopaedic malignancies.

### **EXAMINATION REGULATION :**

Total Marks – 300

	Theory	Practical	Oral	Total
A. Internal Assessment :	30	30	-	60
B. University Examination :	120	100	20	240
	P1-60 (includes 30 marks Ortho.) (2 papers – 60 x 2)		G. S.- 75 Ortho.- 25	G.S. -15 <u>Ortho.- 05</u>

#### **(A) Internal Assessment**

Theory	30 Marks
(Clinical, Practical, Oral)	30 Marks

This is based on day-to-day work, evaluation of student's assignments and regular periodic examinations.

Each student must secure 50% of total marks in internal assessment (Theory and Clinical separately) to become eligible to appear in the Final Professional University examination at the end of 9<sup>th</sup> Semester (minimum of 15 marks in theory and minimum 15 marks in Clinical, Practical and Oral). A minimum attendance of 75% in theory and 80% in clinical postings is compulsory for the eligibility also.

**(B) University Examination**

<b>THEORY</b>	120 Marks
<b>CLINICAL, PRACTICAL AND VIVA</b>	120 Marks

**THEORY :** **120 Marks**

**( B ) Orthopaedics.** **Full Marks 30**

- |      |   |                     |
|------|---|---------------------|
| (i)  | Clinical ( 2 short cases)<br>marks)           | 25 Marks (each 12.5 |
| (ii) | Viva (instruments & Interpretation of X rays) | 5 Marks             |

**Criteria of Passing:**

The candidates has to secure 50% in aggregate (with a minimum of 50% in theory and oral) and a minimum of 50% in clinical.

**MBBS Semester curriculum  
for Obstertics and Gynaecology**

**Prescribed Teaching hours in O&G(III to IX Semester): 300 hrs.**

**OBSTERTICS AND GYNAECOLOGY**

**THEORY**

**OBJECTIVES**

The student should be able to:

- Make Diagnosis and organize management of antenatal, intranatal and postnatal period of normal and abnormal pregnancy;
- Provide adequate care of common gynae problems and emergencies
- Manage common gynae problems and emergencies

- Provide Counseling and delivery of fertility regulation methods.
- Acquire knowledge of methods of termination of pregnancy.
- Apply knowledge of vital statistics in obstetrics and RCH programme
- Develop communication skills.

### **Practical & clinical training**

- Students should be trained about proper history taking, clinical examination.
- Advicing relevant necessary investigations and their interpretation and management.
- Posting in OPD, wards, operation theaters, labor room and family planning clinics.
- Students should observe common OPD procedures like, E.A., D & C, MTP, Pap Smear, CuT insertion. Observe normal deliveries, forceps and ventouse assisted deliveries, cesrean section.
- Ligations, minilap procedures like abdominal, vaginal hysterectomy, foltergill repair.

### **EXAMINATION REGULATIONS :**

Total Marks – 300

	<u>Theory</u>	<u>Practical</u>	<u>Oral</u>	<u>Total</u>
<b>A. Internal Assessment :</b>	<b>30</b>	<b>30</b>	<b>-</b>	<b>60</b>
<b>B. University Examination : 80</b> <b>(2 papers, 40X2)</b>		<b>30</b>	<b>30</b>	<b>140</b>

<b>A-</b>	<b>Internal Assessment</b>	
	Theory	30 marks
	Clinical	30 marks.

This is based on day to day assessment, evaluation of student assignments, regular periodic examination and day to day clinical works etc.

The student must secure 50% of total marks fixed for the internal assessment to be eligible to appear in the third Professional (Part –II ) examination.

<b>B-</b>	<b>University Examination</b>	<b>Total</b>	<b>80</b>
	<b>Marks</b>		

### **Theory**

Paper – I (40 Marks)  
Paper- II (40 Marks)

Duration :2 and half hours.

Number of question in each paper depends on the question setter, but should be of short answer type, objective type and marks to be indicated against each question, will break up for each part.

**Paper – I**

Full Marks – 40

Obstetrics including social obstetrics.

Duration : 2 and half hours,

**Paper –II**

Full Marks – 40

Duration : 2 and half hours

Gynaecology, Family planning and demography (shall contain one question on basic science and allied subject.)

**Clinical** – ( bedside)

Full Marks- 30

**Oral** - 20 + 10 (record of delivery cases)

Full Marks- 30

**Criteria for Passing in the University Examination:**

To pass a candidate must secure 50% in aggregate, with minimum of 50% in theory including oral and a minimum of 50% in clinical.

**TIME TABLE FOR 1<sup>ST</sup> SEMESTER BATCH M.B.B.S (UNDERGRADUATE)**

DAY	9 – 10 A.M	10 – 11 NOON	11 – 1 P.M	1 – 2 P.M	2 – 5 P.M
MONDAY	BIOCHEMISTRY	PHYSIOLOGY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL	L U N C H	ANATOMY
TUESDAY	ANATOMY	BIOCHEMISTRY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL		ANATOMY
WEDNESDAY	BIOCHEMISTRY	PHYSIOLOGY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL		ANATOMY
THURSDAY	ANATOMY	BIOCHEMISTRY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL		ANATOMY
FRIDAY	PHYSIOLOGY	PHYSIOLOGY	SEMINAR		ANATOMY
SATURDAY	PHYSIOLOGY	PHYSIOLOGY	COMMUNITY MEDICINE		ANATOMY

--	--	--	--	--	--

**TIME TABLE FOR 2<sup>nd</sup> SEMESTER BATCH M.B.B.S (UNDERGRADUATE)**

DAY	9 - 10 A.M	10 - 1 P.M (PRACTICAL)	1 - 2 P.M	2 - 3 P.M	3 - 5 P.M
MONDAY	ANATOMY	ANATOMY	L U N C H	PHYSIOLOGY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL
TUESDAY	PHYSIOLOGY	ANATOMY		BIOCHEMISTRY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL
WEDNESDAY	ANATOMY	ANATOMY		PHYSIOLOGY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL
THURSDAY	PHYSIOLOGY	ANATOMY		BIOCHEMISTRY	PHYSIOLOGY / BIOCHEMISTRY PRACTICAL / TUTORIAL
FRIDAY	COMMUNITY MEDICINE			COMMUNITY MEDICINE	PHYSIOLOGY
SATURDAY	BIOCHEMISTRY	ANATOMY		PHYSIOLOGY	SEMINAR

**TIME TABLE OF LECTURES, PRACTICALS, SEMINARS & CLINICAL CLASSES FOR M.B.B.S STUDENTS.**  
**SEMESTER - III**

DAY	7-8 AM	8-9 AM	9-12 NOON	12-1 PM	1-2 PM	2-3 PM	3-4 PM
MONDAY	Orthopaedics	Medicine	Clinical Assignment	Pathology	LUNCH	Pharmacology	Pathology Practical
TUESDAY		Surgery	Clinical Assignment	Microbiology		F.M. & T	Pharmacology Practical
WEDNESDAY	Paediatrics	Pharmacology	Clinical Assignment	Pathology		Comm. Med.	Microbiology Practical
THURSDAY		Medicine	Clinical Assignment	Microbiology		F.M. & T	Pathology Practical
FRIDAY	Surgery	Comm. Med.	Clinical Assignment	Pathology		F.M. & T	F.M. & T Practical
SATURDAY		O & G	Clinical Assignment	Pathology		Microbiology	Comm. Med. Practical

TIME TABLE OF LECTURES, PRACTICALS, SEMINARS & CLINICAL CLASSES FOR M.B.B.S STUDENTS.SEMESTER - IV

DAY	7-8 AM	8-9 AM	9-12 NOON	12-1 PM	1-2 PM	2-3 PM	3-4 PM
MONDAY	Orthopaedics	Medicine	Clinical Assignment	Pathology	LUNCH	Pharmacology	Pathology Practical
TUESDAY		Surgery	Clinical Assignment	Microbiology		F.M. & T	Pharmacology Practical
WEDNESDAY	Paediatrics	Pharmacology	Clinical Assignment	Pathology		Comm. Med.	Microbiology Practical
THURSDAY		Medicine	Clinical Assignment	Microbiology		F.M. & T	F.M. & T Practical
FRIDAY	Surgery	Comm. Med.	Clinical Assignment	Pathology		F.M. & T	F.M. & T Practical
SATURDAY		O & G	Clinical Assignment	Pathology		Microbiology	Comm. Med. Practical

---

TIME TABLE OF LECTURES, PRACTICALS, SEMINARS & CLINICAL CLASSES FOR M.B.B.S STUDENTS.SEMESTER - V

DAY	7-8 AM	8-9 AM	9-12 NOON	12-1 PM	1-2 PM	2-3 PM	3-4 PM
<b>MONDAY</b>	<b>Obst. &amp; Gynaec.</b>	<b>Pharmacology</b>	<b>Clinical Assignment</b>	<b>F.M. &amp; T</b>	<b>LUNCH</b>	<b>Pathology</b>	<b>Pharmacology Practical</b>
<b>TUESDAY</b>	<b>Orthopaedics</b>	<b>Paediatrics</b>	<b>Clinical Assignment</b>	<b>Comm. Med.</b>		<b>Microbiology</b>	<b>Pathology Practical</b>
<b>WEDNESDAY</b>		<b>Medicine</b>	<b>Clinical Assignment</b>	<b>Microbiology</b>		<b>Path. / F.M. &amp; T</b>	<b>F.M. &amp; T Practical</b>
<b>THURSDAY</b>	<b>Comm. Med.</b>	<b>Pharmacology</b>	<b>Clinical Assignment</b>	<b>Pharmacology</b>		<b>Microbiology</b>	<b>Pharmacology Practical</b>
<b>FRIDAY</b>		<b>Medicine</b>	<b>Clinical Assignment</b>	<b>Microbiology</b>		<b>Pathology</b>	<b>Microbiology Practical</b>
<b>SATURDAY</b>		<b>Surgery</b>	<b>Clinical Assignment</b>	<b>Microbiology</b>		<b>Comm. Med.</b>	<b>Pathology Practical</b>

---



**TIME TABLE OF LECTURES, PRACTICALS, SEMINARS & CLINICAL CLASSES FOR M.B.B.S STUDENTS.**  
**SEMESTER - VII**

DAY	7-8 AM	8-9 AM	9-12 NOON	12-1 PM	1-2 PM	2-3 PM	3-4 PM
MONDAY	Orthopaedics	Ophthalmology	Clinical Assignment	Medicine	LUNCH	Radiotherapy	Inter Dept. Integrated Seminar
TUESDAY	Ophthalmology	Medicine	Clinical Assignment	Obst. & Gynaec.		Radiotherapy	Comm. Med. Practical
WEDNESDAY	Anaesthesiology	Surgery	Clinical Assignment	Medicine		Ophthalmology	Dental / Nil
THURSDAY	E.N.T	Paediatrics	Clinical Assignment	Medicine		Comm. Med.	Radiology
FRIDAY	Obst. & Gynaec.	E.N.T	Clinical Assignment	Comm. Med.		Anaesthesiology	Radiology / Nil
SATURDAY	Surgery	E.N.T	Clinical Assignment	Medicine		Comm. Med.	T.B & Chest

**TIME TABLE OF LECTURES, PRACTICALS, SEMINARS & CLINICAL CLASSES FOR M.B.B.S STUDENTS.**  
**SEMESTER - VIII**

DAY	7-8 AM	8-9 AM	9-12 NOON	12-1 PM	1-2 PM	2-3 PM	3-4 PM
MONDAY	Paediatrics	Obst. & Gynaec.	Clinical Assignment	Surgery	<b>LUNCH</b>	Skin & STD	Neurology / Nil
TUESDAY	Orthopaedics	Obst. & Gynaec.	Clinical Assignment	Medicine		Cardiology	Neuro Surgery / Nil
WEDNESDAY	Orthopaedics	Obst. & Gynaec.	Clinical Assignment	Surgery		Endocrine Surgery	Nephrology / Nil
THURSDAY	Paediatrics	Obst. & Gynaec.	Clinical Assignment	Medicine		Nephrology	Cardiothoracic Surgery / Gastroenterology
FRIDAY	Endocrinology, Medicine	Obst. & Gynaec.	Clinical Assignment	Clinical Surgery		Gastroenterology	Inter Dept. Integrated Seminar
SATURDAY	Urology	Obst. & Gynaec.	Clinical Assignment	Clinical Medicine		Plastic surgery	Comm. Med. / Nil

**TIME TABLE OF LECTURES, PRACTICALS, SEMINARS & CLINICAL CLASSES FOR M.B.B.S STUDENTS.**  
**SEMESTER - IX**

DAY	7-8 AM	8-9 AM	9-12 NOON	12-1 PM	1-2 PM	2-3 PM	3-4 PM	
MONDAY	Paediatrics	Obst. & Gynaec.	Clinical Assignment	Surgery	<b>LUNCH</b>	Skin & STD	Neurology / Nil	
TUESDAY	Orthopaedics	Obst. & Gynaec.	Clinical Assignment	Medicine		Cardiology	Neuro Surgery / Nil	
WEDNESDAY		Obst. & Gynaec.	Clinical Assignment	Surgery		Haematology	Nephrology / Nil	
THURSDAY		Paediatrics	Obst. & Gynaec.	Clinical Assignment		Medicine	Nephrology	Cardiothoracic Surgery / Gastroenterology
FRIDAY		Endocrinology, Medicine	Obst. & Gynaec.	Clinical Assignment		Clinical Surgery	Gastroenterology	Inter Dept. Integrated Seminar
SATURDAY	Urology	Obst. & Gynaec.	Clinical Assignment	Clinical Medicine		Plastic Surgery	Paediatrics / Nil	



**REGULATION**  
**&**  
**Syllabus M.Sc (Medical)**  
**IMS & SUM Hospital**

The idea of starting a medical college in the capital of Orissa begun from a noble vision to develop and maintain excellence in HRD in health and also to make state of art of the health care at affordable price to the poorest of poor.

The prime concern of the Institute is to develop patterns of teaching in undergraduate and postgraduate medical education in all the branches so as to demonstrate a high standard of medical education to all medical colleges and other allied institutions in India. This educational experience is imparted in an atmosphere of research.

It also has a vision to develop Institute of Medical Sciences and SUM Hospital into a modern teaching and referral hospital with retaining their rural orientation

The desire to make this institution as a pioneer medical research center and to integrate medical research with different systems of medicine to achieve complementary benefits is reflected in it.

The IMS imparts postgraduate MSc. (Medical) degrees in major specialities i.e.

**M Sc (Master of Science)**

- 1. Anatomy**
- 2. Physiology**
- 3. Biochemistry**
- 4. Microbiology**

MSc (Medical) Anatomy, Physiology, Biochemistry, Pharmacology & Microbiology course has been introduced to create more work forces in respective discipline

**1. Duration of Curriculum & Calendar**

- 1.1. Each year will be from 1<sup>st</sup> July to 30<sup>th</sup> June. The no of teaching weeks in each year shall be 40 weeks excluding period of examination.
- 1.2. Each year the University will draw out a calendar of academic and associated activities, which shall be adhered to. The same is non-negotiable. Details of curricula and syllabi shall be as decided by the Academic Council with provision for modification from time to time as per the needs of the specializations concerned.

- 1.3. Duration: The duration of the programme shall be 3 years. However a student may be allowed to complete the programme within not more than five years. Out of which first year will consist of Basic Medical Sciences and next two years will be of respective subjects.
2. Eligibility for Admission
- 2.1. Admission to M.Sc Medical courses of University shall be based on criteria decided by the Academic Council of the University. There shall be admission provision for limited no of NRI / FN students. Detail of criteria for admission shall be as per provision of the rules formulated for the purpose. As per prevailing regulation for admission into each MSc. Medical Course
- I) The minimum qualification of candidate should be **MBBS/ M.Sc.(Zoology/ Botany/Biotechnology), BSc. With Chemistry, Botany & Zoology/ BHMS/BAMS.**
- II) The candidate has to pass through SAAT entrance examination.
- 2.2. The candidate should be medically fit to the job of a teaching faculty. The fitness certificate of the selected candidates will be issued by the Committee appointed by the competent Authority. The physically handicapped candidates shall be required to satisfy the prescribed medical fitness norms.
- 2.3. Admission shall ordinarily be closed on a prescribed date before commencement of the 1<sup>st</sup> year classes as provided in academic calendar.
- 2.4.
- The candidates shall have to register as bonafide students with the University as per the University regulations.
  - A student allowed to attend classes only for those subjects that he / she has registered.
  - A student will be promoted to second year only after he / she clears first year University examination. No backlog system is adopted in this course. However in case of failure, a supplementary examination will be arranged within 45 days after the publication of annual examination after which the candidate will be allowed to join in the second year class of the same subject.
  - Change of branch facility is not allowed to students of MSc. Medical course. In case of discontinuance University will wait upto three year after which the candidate will lose his/her claim for readmission. The course fees that is deposited for the course will be forfeited. In no case the money will be refunded.

**Academic Calendar of M.Sc. Medical  
Anatomy/Physiology/Biochemistry/Microbiology**

Notification for admission	-----	20.07.08
Interview for selection of candidate	-----	26.08.08
Publication of result	-----	28.08.08
Date of admission	-----	06.09.08
Commencement of 1 <sup>st</sup> year course	-----	1 <sup>st</sup> October 2008
Mid term evaluation	-----	1 <sup>st</sup> March 2009
Publication of result	-----	15 <sup>th</sup> March 2009

<b>1<sup>st</sup> University Examination</b> -----	15 <sup>th</sup> June 2009 to 30 <sup>th</sup> June 2009
Publication of result -----	30 <sup>th</sup> July 2009
Commencement of 2 <sup>nd</sup> year-----	1 <sup>st</sup> August 2009
Submission of Synopsis of thesis -----	Before 31 <sup>st</sup> November 2009
Mid term evaluation (2 <sup>nd</sup> year) -----	1 <sup>st</sup> January 2010
Publication of result -----	15 <sup>th</sup> January 2010
2 <sup>nd</sup> year ending Examination -----	15 <sup>th</sup> May to 20 <sup>th</sup> May 2010
Publication of result -----	5 <sup>th</sup> June 2010
Commencement of 3 <sup>rd</sup> year-----	7 <sup>th</sup> October 2010
Mid term evaluation (3 <sup>rd</sup> year) -----	1 <sup>st</sup> January 2011
Publication of result -----	15 <sup>th</sup> January 2011
Submission of Thesis -----	15 <sup>th</sup> May 2011
<b>2<sup>nd</sup> University Examination</b> -----	15 <sup>th</sup> June 2011 to 30 <sup>th</sup> June 2011
Publication of result -----	30 <sup>th</sup> July 2011

### 3. About the MSc. Medical course

- The courses will contain 3 years of intensive study.
- Each course is divided into two parts.
- 1<sup>st</sup> part of the Course is of one year duration consists of basic medical sciences, i.e. Anatomy, Physiology & Biochemistry.
- Beside these courses the student will have to attend additional 40 hours classes of their parent subject in their respective departments in order to know the basics of that subject. This basic course will be designed by the Head Of Department of the concern course
- The candidate will have to attend 20 hours computer classes in 1<sup>st</sup> year. These classes will be arranged by the departmental head of Computer section.
- These above mentioned two subjects will carry no credit in 1<sup>st</sup> year course.
- 1<sup>st</sup> part is compulsory & common to all discipline.
- Without clearing 1<sup>st</sup> part, the candidate will not be allowed to join the course in the 2<sup>nd</sup> year. However he/she will be allowed to appear for supplementary examination which will be held within 45 days of publication of annual examination result.
- The 2<sup>nd</sup> part of the course is of two years duration.

- The extended course of respective discipline will be taught in the 2<sup>nd</sup> part of the course.
- In the 2<sup>nd</sup> part the candidate has to submit a thesis before appearing the University Examination.

### Synopsis of the thesis

- In the Second part of the course candidate has to select a subject with consultation with the guide & to submit a synopsis for his thesis in the prescribed form within 1 month of his joining in the respective course.
- He has to complete the thesis under the guidance of a Professor of the concerned Department.
- He has to submit the thesis 4 months before the theory examination of 2<sup>nd</sup> part of the course.
- The guide will certify the thesis as an original work & done by the candidate only under his/her guidance.
- The theme of the thesis should be related to the subjects of the discipline of the candidate concern.
- The candidate can change the topic of the thesis only before the end of first 6 month of 2<sup>nd</sup> part course with the permission of the guide of the thesis.
- The research cost of the thesis work will be born by the candidate only.
- The candidate has to procure the certificate from the ethical committee of the college before starting the Research work for the thesis he has to attach the same certificate while submitting the thesis book.

**Course of 1<sup>st</sup> year MSc medicals is consists of Anatomy, Physiology & biochemistry & is same as that of 1<sup>st</sup> MBBS students**

**Course of Course of 2<sup>nd</sup> & 3<sup>rd</sup> year of MSc medicals is the extended course of their own discipline.**

### Examination Regulations of Msc. Medical course

**1st University examination:**

**In each subject the examination will follow the guideline given below**

EXAMINATION REGULATIONS: Total Marks – 300

	Theory	Practical	Oral	Total
<b>A. Internal Assessment :</b>	-	-	-	<b>100</b>
<b>B. University Examination :</b>				
<b>2 papers (50 X 2)</b>	<b>100</b>	<b>50</b>	<b>50</b>	<b>200</b>

A. Internal Assessment : 100 Marks

**(Internal Assessment is based on day-to-day assessment and regular periodic examination. The student should secure 50% total marks fixed for internal assessment to be eligible to appear for 1<sup>st</sup> Professional Examination.)**

B. UNIVERSITY EXAMINATIONS : 200 Marks

Theory 50X2 100 Marks

**Paper I – 50 marks.**

**Paper – 50 marks.**

**Duration 3 hours each.**

**Each paper must have applied questions of 10 marks each.**

Practical 50 Marks

Oral 50 Marks

**The practical & oral examination will be conducted by two internals & two externals examiners & it should not be less than 2 days duration.**

CRITERIA FOR APPEARING UNIVERSITY EXAMINATION

- 3. 75 % attendance in theory & 80 % attendance in practical.**
- 4. 50 % marks in internal assessment in theory & practical separately.**

CRITERIA FOR PASSING:

**A candidate must secure 50% in aggregate with minimum of 50% in theory and oral and obtain a minimum of 50% in Practical.**

**SECOND YEAR AND THIRD YEAR:**

**(MSc. Anatomy Physiology, Biochemistry, & Microbiology)**

**The university examination will be at the end of third year. Students only after clearing the first part will be eligible to appear the 2<sup>nd</sup> part examination.**

### **2<sup>nd</sup> University examination**

In all subjects the 2<sup>nd</sup> university examination will follow the guide line given below

#### **M.Sc. (Medical) Examinations (2<sup>ND</sup> Part)**

At the end of 3<sup>rd</sup> year SOA University will conduct M.Sc. Physiology Examinations (2<sup>nd</sup> Part) in the month of May. The candidate only completing 36 months after the admission into the course, passing the 1<sup>st</sup> Part of the respective course & submitting the completed thesis in proper format are eligible to appear the 2<sup>nd</sup> part examination.

**Total marks 600**

**Internal assessment: 100 marks**

Theory ----- 60 marks

Practicals & Teaching ability----- 40 marks

(Internal Assessment is based on day-to-day assessment and regular periodic examination. The student should secure 50% total marks fixed for internal assessment to be eligible to appear for 2<sup>nd</sup> Part MSc. Examination.in Anatomy or Physiology or Biochemistry or Pharmacology or Microbiology )

**University Examination : 500 mark**

University examination will consists of 2 sections

#### **Section 1**

**Theory Paper 1 ---100 marks,**

**Theory Paper 2 ---100 marks**

**Theory Paper 3 ---100 marks**

Each Paper is of three hours duration & will have 5 essay type questions. All the questions will be compulsory.

### **Details of Practical & Oral examination.**

For every 10 students or less the practical & oral examination will be conducted by two internals & two externals examiners & it should not be less than 2 days duration. For every additional 10 or less students one more internal examiner will be added.

### **PRACTICAL & ORAL**

**max marks: 200**

For every 10 students the practical & oral examination should not be less than 2 days duration.

PRACTICAL

- 100 marks

Assessment of subject teaching ability

- 40 marks

( The candidate has to take 45 minutes class in the presence of externals & internals who will assess his / her performance in term of marks)

### **GENERAL VIVA**

**- 60 marks**

**Beside these above two courses Medical health administration (2yrs) & Master in Physiotherapy courses (3yrs), BMLT (2yrs) are also present in the college. Detail of these courses are available in separate booklets.**

### **College Rules & Regulations**

1. After taking admission in the college a student has to sign an undertaking to the effect that the student will abide by the rules and discipline of the college.
2. Each student must register in the college office his permanent as well as the local address if he is not staying in the hostel. He must register the name of the local guardian & his contact address if his/her parents stay out side Bhubaneswar/Cuttack.
3. He/She must pay all his/her due of the college without fail in time failing which he/she may be expelled from the college..
4. Raging is not allowed in the college campus in any form. If any student will found guilty of practicing ragging in any form will be expelled from the college immediately.

5. All the students have to carry the valid identity card issued to them and produce it when demanded.
6. Any disturbance if created by student in the college or college hostels will be viewed seriously and the disciplinary committee will take appropriate action immediately.

## Students residence ( Hostels)

Are one boys hostel & one girls hostel in side the college campus which 50 mt distance from the college. Though there is provision for 300 students in each hostel, at present in boys hostel ----- students & in girls hostel ----- students are staying. A well-furnished mess is functioning in both the hostels. Students are allowed to stay in the air-conditioned room on payment basis if they desire.

### **Rules of the Hostels**

1. SOAU, Bhubaneswar is essentially a residential Institution. All the students of SOAU are required to stay in one of the hostels of the University.
2. Every student of SOAU, unless otherwise exempted/permitted by the Dean (SW) on application/request shall be required to stay in one of the hostels of the University.
3. The Dean (SW) may permit a student to reside with his/her parents/Guardian within a reasonable distance from the University. Such student will be attached to a hostel and will be required to pay certain dues as approved by the University. However, this permission may be withdrawn at the discretion of the University at anytime considered appropriate without assigning any reason.
4. Allotment of rooms in a hostel should be directed towards integration of students of different courses, batches, residential districts/states and communities. Reshuffle of allotments may be done in the middle of a year if the above objective is not met adequately.
5. No married accommodation shall be provided to any student perusing under graduate programme.
6. No student shall come into or give up the assigned accommodation in any hostel without the prior permission of the Dean(SW).
7. A student shall reside in a room allotted to him/her. He/she may shift to any other room only under the direction/permission of the superintendent.
8. Students shall be required to make their rooms available, whenever required, for inspection, repair, maintenance or disinfection and shall vacate the room when leaving for vacation/holidays.

9. Students shall be responsible for the proper care of the furniture and fixtures such as : fans, and other electrical appliances fitted in the rooms allotted to them and shall generally assist the hostel superintendents and others in ensuring proper use, care and security of those provided in the hostel for common use of all the students.
10. Students will be responsible for the safe keeping of their own property. In the event of loss of any personal property of a student due to theft, fire or any other cause, the University shall accept no responsibility and shall not be liable for payment of any compensation.
11. Engaging personal attendants, keeping pets and use of appliances like electric heaters, water heaters, room heaters, refrigerators, T.V, V.CR by a student in the hostel room is prohibited.
12. Study hour shall be fixed by the superintendent and notified in the hostel. No student shall be permitted to go out of the hostel during study hour. Use of mobile phones is strictly prohibited in study hour and from 10 p.m. to 6 a.m.
13. Visitors may be allowed to the hostel between 5.30 P.M. and 7 P.M. No visitor is allowed into the rooms of the students without specific permission of the superintendent.
14. There is no facility in any hostel to accommodates guests of any description. However in emergency situations a boarder may accommodate a member of his/her family with written permission of the superintendent for a period not exceeding a day.
15. Boarders may visit their Local guardians (LG) provided the local guardian seeks permission of the hostel superintendent in writing for the visit mentioning the purpose and duration. The local guardian shall be held responsible for anything that may happen to the boarder during the period of such visit.
16. No boarder is allowed to leave the hostel for home or any other place without prior written permission of the hostel superintendent. The permission granted shall be recorded by the officials of hostel office.
17. No boarder shall indulge in damaging hostel property of any description. Boarder(s) found involved in causing damage to hostel property shall be penalized and the cost of damage shall be realized from them. Cases where it is not practicable to fix responsibility on individual boarders, the cost of damage and the fine thereon shall be recovered from all the boarders.
18. Ragging/in conveniencing the inmates.

Ragging in any form is a cognigible offence and in banned. No boarder shall indulge in ragging in any form or in conveniencing of any kind to any inmates of the hostel. If any incident of ragging comes to the notice of the authority, the concerned students (s) shall be subjected to disciplinary action. They shall be given the opportunity to explain their own defence. If the explanation is not found to be satisfactory, the authority will take appropriate disciplinary action as per University rules including expulsion/rustication.

19. The mess of each hostel shall function as a single integrated unit and shall not under any circumstances be subdivided into any kind of groups or sub groups.

20. All hostel dues including mess bills must be paid in time as notified by the authorities.
21. The following shall be considered as breach of discipline in the hostel.
  - 1) Absence from hostel without prior permission.
  - 2) Negligence in study and staying in the hostel during class hours without any valid reason.
  - 3) Making noise in the hostel and causing disturbance to other boarders.
  - 4) Holding any meeting in the hostel without permission of the hostel superintendent/Authority.
  - 5) Harassing/abusing other boarders or practicing ragging towards junior students in any form.
  - 6) Use of forbidden drugs, alcohols, cigarettes in the hostel or forcing others the same for use.
  - 7) Coming late to hostel without any valid reasons.
  - 8) Not paying the hostel and mess dues in time.
  - 9) Playing loud music in room and disturbing other boarders.

## STUDENT AMENITIES

### 1. Canteen

A well maintained canteen is present in the hospital premises to cater the need of the students, staffs, patients & their attendant. It has 100 seating capacity spreaded in three rooms. The well laid out tables, neat serving counter, excellent sanitation & cosy atmosphere make it a most frequent place in the institute. Coffee Kiosks are also available in the campus.

### 2. Gymnasium

A well equipped gymnasium is present in the campus for the students. It remains open from 4PM to 7 PM daily for the students.

### 3. Games facilities

Several games facilities are available in the campus for the students.

- 1) A play ground for playing cricket, football etc.
- 2) Sports kits of different games like cricket, football, basket ball, volley ball, badminton etc.
- 3) A sports officer has been appointed to guide the students.

## Library

A well-equipped fully air-conditioned central library is present in the college premises over 1800 sqft area. More than 5600 books, Internet with 15 nodes, more than 1400 international & national on line journals with Xerox & other facilities are present to cater the need of the students as well as the faculties. 120 students can read at a time. There is separate provision for the staff reading room.

### Library rules

1. Library will be open from 8 AM to 11 PM on working day & 9 AM to 5PM on holiday & Sunday.
2. Only the students & faculties of IMS are allowed to use the library in the scheduled time.
3. Others can use the library with the permission of the authority.
4. The student/Staff can use the books in the library during the working time.
5. The student & staff can issue maximum three books from the library which they have to return within 15 days, failing which fine will be imposed.
6. No book will be issued from the reserve section.
7. No gossip is allowed inside the library
8. On return any damage to the book if noticed the user will be fined to pay the latest cost of the book.

### Anti Ragging Measures

#### UGC Regulation on Curbing the Menace of Ragging in Higher Education Institution

To root out ragging in all its form in colleges in the country the following recommendations have been made by the UGC under the direction of honourable Supreme Court of India.

Ragging is a social menace and it should be rooted out entirely from educational Institutions. Ragging defines as follows:

- A. Any conduct whether by word spoken or written**
- B. By an act which has the effect of teasing , treating or handling with rudeness any other student, including in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher**
- C. A junior student or asking the students to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or a junior student.**

### **Punishable ingredients of Ragging**

- Abetment to ragging
- Criminal conspiracy to rag
- Unlawful assembly and rioting while ragging
- Public nuisance created during ragging
- Violation of decency and morals through ragging
- Injury to body, causing hurt or grievous hurt
- Wrongful restraint
- Wrongful confinement
- Use of criminal force
- Assault as well as sexual offences or unnatural offences
- Extortion
- Criminal trespass
- Offences against property
- Criminal intimidation
- Attempt to commit any or all the above mentioned offences against the victim(s)
- Physical or psychological humiliation
- All other offenses following from the definition of “Ragging”

The students those who got admitted will have to give an undertaking in the prescribed proforma to curbe ragging. The honourable Supreme Court of India has suggested three major committees

1. Anti Ragging Committee
2. Anti Ragging Squad
3. Monitoring Cell of ragging

Punishments that are to be awarded to the students those will be found guilty in the ragging as follows:

1. Suspension from attending classes and academic privileges
2. Withholding/ withdrawing scholarship/fellowship and other benefits
3. Debarring appearing in any test/examination or other evaluation process
4. Withholding results
5. Debarring from representing the Institution in any regional, national or international meet, tournament, youth festival, etc.
6. Suspension/expulsion from the hostel
7. Cancellation of admission
8. Rustication from the Institution for period ranging from 1 to 4 semesters
9. Expulsion from the Institution and consequent debarring from admission to any other institution for a specific period.
10. Fine ranging between Rupees 25,000/- and Rupees 1 lakh
11. Collective punishment:- When the person committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment

Two undertakings, one by the student and other by the parents of all the students of the Institution are to be submitted at the time of admission as well as also by the senior students

**ANNEXURE – I, Part –I****UNDERTAKING BY THE CANDIDATE/STUDENT**

1. I, \_\_\_\_\_  
 S/o, D/o. of Mr./Mrs./Ms. \_\_\_\_\_  
 have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central/State Government in this regard.
2. I have received a copy of the UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009, and have carefully gone through it.
3. I hereby undertake that
- I will not indulge in any behavior or act that may come under the definition of ragging,
  - I will not participate in or abet or propagate ragging in any form,
  - I will not hurt anyone physically or psychologically or cause any other harm.
4. I hereby agree that if found guilty of any aspect of ragging, I may be punished as per the provisions of the UGC Regulations mentioned above and/or as per the law in force.
5. I hereby affirm that I have been expelled or debarred from admission by any Institution.

Signed this \_\_\_\_\_ day of \_\_\_\_\_ month of \_\_\_\_\_ year \_\_\_\_\_

Signature

Name:

Address:

**ANNEXURE – I, Part –II****UNDERTAKING BY THE PARENT/GUARDIAN**

1. I, \_\_\_\_\_

F/o. M/o. G/o. \_\_\_\_\_

have carefully read and fully understood the law prohibiting ragging and the directions of the Supreme Court and the Central/State Government in this regard as well as the UGC Regulations on curbing the Menace of Ragging in Higher Educational Institutions, 2009.

2. I assure you that my so/daughter/ward will not indulge in any act of ragging.
3. I hereby agree that if he/she is found guilty of any aspect of ragging, he/she may be punished as per the provisions of the UGC Regulations mentioned above and/or as per the law in force.
4. I hereby affirm that I have been expelled or debarred from admission by any Institution.

Signed this \_\_\_\_\_ day of \_\_\_\_\_ month of \_\_\_\_\_ year \_\_\_\_\_

Signature

Name:

Address: