

Departmental information

1. Department name : Anatomy
2. Institution name : Chirayu Medical College & Hospital
3. Courses offered : MBBS, MD

4. **Departmental Library-cum-Seminar Room :**

a) Accommodation

- i) Size : **37.25 sq. mts**
- ii) Capacity : **14**

b) Number of books in Anatomy and allied subjects : **119Books**

c) List of Journals : **5 Journals (Available in the Central Library)**

(5) **Practical Laboratories :**

A) Dissection Hall : **Available**

a) Accommodation :

- i) Size : **412 Sq. mta.**
- ii) Capacity : **150 Students**

B) Number and arrangement of tables

- i) Big : **20**
- ii) Small : **05**

C) Hygiene and Drainage facilities for Disposal of Discarded parts. Is there a burial ground ? **Yes**

a) Washing arrangement : **Available**

- b) No. of wash basins provided : **16 No.**
- c) No. of lockers provided for students : **150**
- d) Light and exhaust arrangements : **Adequate, Available**
- e) Special Instruments other than routine Dissection sets, such as Electric saw etc. :
Band Saw
- f) Extra Learning Aids provided in the Dissection Hall :
(Skeleton, Charts, Black Board etc.)

Articulated Skeletons, Charts, Green Board, Loose Bone sets

- g) Cadaver Preservation Facilities :
- z: Embalming room : **Available**
- Size : **25.92 sq. mts**
 - Location : **Attached to the Dissection Hall**
- zz: Storage Tanks
- Number : **03**
 - Size : **one (3 sq. m), & Two (1.5 sq. m.Each)**
- zzz: Cold room/cooling cabinets
- Size : **50 Sq. m.**
 - Capacity : **8 bodies**
- z%: No. of Cadavers available - **25.**
Permission for acquiring Cadavers vide letter no- 1102/ADM/10 from office of District Magistrate, Bhopal dated 7/10/10.
- v) No. of students allotted per cadaver: **15 students per cadaver**

6. Histology Laboratory

α) Accommodation

- Size : **291 Sq. m. shared with pathology.**
- Capacity : **90 Students**

• Working arrangement

- Seats available: **For 90 Students.**
- Cupboard for storage of microscope slides etc. - **6 cabinets for slides (1000)**
- Number of Microscopes with 1/3, 1/6, & 1/12 objectives
90 Microscope

• Number of students to each Microscope- 1 : 1

• Preparation room

- Size : **19.15 Sq. m**
- Location : **Attached to Histology Lab**

• Whether Laboratory Manuals kept by students?

- Yes , **Available**

- Close circuit TV/Demonstration Microscope/any other teaching aids : Histology transparencies
Yes, Available

7. Demonstration Room :

α) Number - **2**

β) Accommodation (of each demonstration room)

i) Size : - **89 sq. mts & 91.68 sq. mts**

ii) Capacity: - **75 Students**

c) Audio-visual equipment available. **Available**

LCD Projector, DVD Player, Television, Overhead Projector, Slide Projector.

8. Research Laboratory - Size : 59.9 sq. m

Equipment **List of Equipments in research laboratory**

S.no	Name of Equipment	Available
1	Drill machine	1
2	Incubators 14x14	1
3	Balance Earanger capacity 6 kilos Sensitivity, 1/5 gram	1
4	Distilled water still menesty type	1
5	Specimen jars	10
6	Refrigerator	1
7	Hand lens	1
8	Ink pad with ink bottle	1
9	Roller for ink	1
10	Ruler	1
11	Osteometric board	1
12	Poster colours with brush	1 Pack
13	Models (Embryology)	3
14	Bones for comparative anatomy	1 Set
15	Dissection kit	1
16	Enamel tray	5
17	Measuring glass jars	3

9. Computer system & Internet facility - available to whom :
in HOD Room ,office Room & Research laboratory

10. List of major equipments in department

1. **Band Saw**

2. Cooling cabinets

• Size : **50 Sq. m.**

• Capacity : **8 bodies**

3. **Microscope 90 no.**

4. **Microtome 2 no.**

5. **Hot bath 1 no,**

11. Teaching schedule (a) Syllabus in short

(b) Total teaching hours - **Total 650 Hrs.**

(c) Didactic lectures - 200

(d) Practicals - 370

(e) Tutorials - 30

(f) Demonstrations - 30

(g) Seminars - 20

12. *Scheme of Examination:*

INTERNAL ASSESSMENT FOR ANATOMY

Total Marks: 40- Theory 20 and Practical 20

THEORY: 20 Marks

Minimum of three examinations are recommended. The sessional examination preceding the university examination may be similar to the pattern of university examination. Average of any two best marks obtained in the notified internal examinations may be taken into consideration for calculating internal assessment. The total marks be reduced to 20 and sent to the university.

PRACTICALS: 20 Marks

There will be two terminal practical examinations. 5 marks will be for records and 15 marks for terminal tests. Average marks of the two terminal examinations shall be reduced to 15 marks and added to the marks obtained for records and sum of the two shall be sent to the university.

The internal assessment marks both theory and practical obtained by the candidates should be sent to the university as per academic calendar of MPMSU and notifications.

SCHEME OF EXAMINATION: ANATOMY

UNIVERSITY EXAMINATION

There shall be two examinations annually (Main and Supplementary) conducted at an interval of not less than four to six months.

A. THEORY : 100 Marks

There shall be two theory papers of 50 marks each and duration of each paper will be of 3 hours. Distribution of chapters for paper I and II with weightage of marks in Anatomy for University Examination

PAPER 1		PAPER 2	
Topics	Marks	Topics	Marks
Head and Neck	15	Abdomen	15
Brain, spinal cord	5	Pelvis & Perineum	10
Upper limb	10	Lower limb	10
Thorax including diaphragm	10	Systemic Histology-10}	

General Anatomy	10	Genetics – 10 }	15
General Embryology		Systemic Embryology-10 }	
General Histology			
Total	50	Total	50

PAPER I			PAPER II			
Type of Questions	Number of Questions	Marks for each question	Total	Number of Questions	Marks for each question	Total
Long Essay Any one of the two questions may be a Case scenario based on Applied aspects.	2	5	10	2	5	10
Short Essay	10	3	30	10	3	30
Short Answer	10	1	10	10	1	10
TOTAL MARKS		50	TOTAL MARKS		50	

Chapter wise distribution of type of Questions and Marks will be as under *:

The pattern of questions would be of three types.

Paper-1 Head & Neck, Brain and Spinal cord, Thorax including diaphragm and upper limb and also relevant systemic Embryology (One of the Long essay may be a case scenario based on applied aspects)	Long Essay 2 x 5 Marks	10
Head & Neck, Brain and Spinal cord, Thorax including diaphragm and upper limb and General & Systemic Embryology & Histology	Short Essays 10 x 3 Marks	30
General Anatomy, General Histology, General Embryology and also Head & Neck, Brain and spinal cord, Thorax including diaphragm and upper limb also relevant systemic Embryology & Histology	Short Answer 10 x 1 Marks	10

Paper - 2 Gross Anatomy of Abdomen, Pelvis and Lower limbs and relevant systemic Embryology	Long Essay 2 x 5 Marks	10
Gross Anatomy of Abdomen, Pelvis and Lower limbs and relevant systemic Embryology & Histology + Genetics	Short Essays 10 x 3 Marks	30
Relevant Systemic Histology, Embryology, Genetics and also abdomen, Pelvis and Lower limbs	Short Answer 10 x 1 Marks	10

B. PRACTICAL :40 Marks

Gross Anatomy: 25

a. Spotters: Identification of structures in given specimen, each carrying

One mark, five specimens to be kept, one of which shall be a cross section = 5 marks

b. Discussion on two given dissected specimens, each carrying 7.5 marks

Structures above diaphragm and diaphragm – 7.5 marks

Structures below diaphragm – 7.5marks = 15 marks

c. Surface Anatomy = 5 marks

a + b + c = 25 Marks

Histology – 15 marks

a. Identification of 4 slides and interpretation of one chart

On genetics, each carrying one mark = 5 marks

b. Discussion on two given slides 5 x 2 = 10 marks

a + b = 15 marks

C. Viva-Voce Examination : 20 Marks

The Viva-Voce examination will be conducted by four examiners individually. The distribution of topics and marks for each examiner will be as under:

I. Questions on embryology (with models) 5 marks

II. Applied and Radiological anatomy including ultrasound, C.T. and MRI 5 marks

III. Osteology and soft parts in the regions of head and neck, brain and spinal

Cord, thorax including diaphragm and upper limb. 5 marks

IV. Osteology and soft parts in the region of abdomen, pelvis and lower limb 5 marks

20 Marks

13. LIST OF PUBLICATIONS IN LAST 3 YEARS:

Dr. Lata S. Khanzode. (Professor & Head)

- Dr. Smita Balsurkar, **Dr. L. S. Khanzode**
Study of palmer dermatoglyphics in carcinoma of cervix.
International Journal of current Research review, Feb 2013; 05(04): 140-142
- Dr. R. Deopujari, Dr. A. S. Mangalgiri, Dr. D. K. Satpathi, **Dr. L. S. Khanzode**
Study of Ossification of Carotid - Clenoid Ligament and Interclenoid Ligament in Skulls of Central India and its Clinical Implications.
Indian Journal of Forensic Medicine & Toxicology. 2014; 8(2):143-145.
- Mangalgiri Ashutosh, Suri AD, Satpathi DK, **Khanzode LS**
Study of Origin of left vertebral artery from the arch of aorta in central India and its clinical relevance.
Indian Journal of Forensic Medicine and Toxicology 2014; 8(2): 161-164

Dr. Ashutosh Sudhakar Mangalgiri. (Professor)

I] Research Paper Publications:

1. Deopujari R; **Mangalgiri AS**; Dixit A; Longia GS

Neural Tube Defect Spectrum-Study of Craniorachischisis

People's Journal of Scientific Research. Vol.4 (1), Jan 2011, p-23-27.

2. Kapre Madan; **Mangalgiri Ashutosh**; Mahore Devendra

Study of Thyrolingual Trunk and Its Clinical Relevance.

Indian journal of Otolaryngology and Head & Neck surgery, published online on December 20, 2011

3. Kapre Madan; **Mangalgiri Ashutosh**

Clinical Importance of Duplication of Internal Jugular Vein

Indian journal of Otolaryngology and Head & Neck surgery, 2012; 64 (4): 386 – 388.

4. Satpathi DK, **Mangalgiri AS**

A topographic study of Wormian (Sutural) bones and their clinical significance in the region of parietal bone in human skulls of Central India.

Indian Journal of Forensic Medicine & Toxicology. 2014;8(2), p 176-179.

5. Deopujari R, Satpathi DK, **Mangalgi AS**

Clinical importance of anatomical variants of sciatic nerve in relation to the piriformis muscle.
National Journal of Clinical Anatomy, 2012; vol 1(4): 160 – 164.

6. Deopujari R, **Mangalgi AS**, Satpathi DK, Khanzode LS.

Study of Ossification of Carotid - Clenoid Ligament and Interclenoid Ligament in Skulls of Central India and its Clinical Implications.

Indian Journal of Forensic Medicine & Toxicology. 2014;8(2): 143-145.

7. **Mangalgi Ashutosh**; Mahore Devendra; Kapre Madan.

Study of a Unique 'Inverted U' shaped thyroid gland and its clinical importance.
Indian journal of otolaryngology and head and neck surgery. 2014;66(2):224-225.

8. **Mangalgi Ashutosh**, Suri AD, Satpathi DK, Khanzode LS

Study of Origin of left vertebral artery from the arch of aorta in central India and its clinical relevance.
Indian Journal of Forensic Medicine and Toxicology. July-Dec 2014; 8(2):161-164.

9. **Mangalgi Ashutosh**; Namdev L N, Mahore Devendra; Kapre Madan.

The Study of Higher Origin of Facial Artery and its Surgical Significance
Indian Journal of Otolaryngology and Head & Neck Surgery. 2015; 67(1):72-74.

10. **Mangalgi AS**, Satpathi DK, Bhojwani R.

Study of Os Zygomaticum Bipartitum In Skulls of Central India
J of Indian Academy of Forensic Medicine. 2015; 37(1): 59-61.

II] Book Publication:

1. 'Beautiful Nose Inside Story - Atlas of Surgical Anatomy of Nose and Important Procedures' - 2010
By: Dr. S.N. Lulay & **Dr. A. S. Mangalgi**

2. **Atlas of Thyroid Surgery – 2013**
By Dr. Maadan Kapre, Dr. Devendra Mahore, **Dr. Ashutosh Mangalgi**

II] Book Publications:

- "Beautiful Nose Inside Story-Atlas of Surgical Anatomy of Nose and Important Procedures"
Dr. S.N. Lulay & **Dr. Ashutosh Mangalgi**
- Atlas of Thyroid Surgery – 2013.
Dr. Madan Kapre, Dr. Devendra Mahore, **Dr. Ashutosh Mangalgi**

Dr. Gunwant R. Chaudhari (Professor)

- Wankhede K P, Bardale R V, **Chaudhari G R**, Kamdi N Y
Determination of sex by discriminant function analysis of mandibles from a Central Indian population
Journal of Forensic Dental Sciences. Accepted for January- March 2015

Dr. Vaibhav Prakash Anjankar (Associate Professor)

- **Vaibhav Prakash Anjankar**, Pradnyesh N. Panshewdikar, Gourav Thakre, Uddhav Mane and Vishal Tekale.
Morphological study on branching pattern of Femoral artery: A Cadaveric study.

Asian Journal of Biomedical and Pharmaceutical Sciences; 04 (28); 2014; 34-38.

- **Dr. Vaibhav P. Anjankar**, Dr. S. D. Gupta, Dr. Shema Nair, Naresh Thaduri, Dr. G. N. Trivedi and Dr. Virendra Budhiraja.
Analysis of position of greater palatine foramen in central Indian adult skulls: a consideration for maxillary nerve block.
Indian Journal of Pharmaceutical and Biological Research. 2014; 2(1):51-54.
- **Dr. Vaibhav P. Anjankar**, Dr. M. P. Parchand, Dr. Ashish P. Anjankar, Dr. N. Y. Kamdi and Dr. Mrs. M. M. Meshram.
Placental Morphometry in Toxaemia of Pregnancy.
Scholars Journal of Applied Medical Sciences. 2014; 2(1B):205-208.
- **Anjankar Vaibhav Prakash**, Panshewdikar Pradnyesh N, Joshi DS and Anjankar Ashish Prakash.
A cadaveric study involving variations in external morphology of gall bladder.
International Journal of Medical Research & Health Sciences 2013; 2(2):239-242.
- Sirpurkar Manik, **Anjankar Vaibhav Prakash**, Wankhede Kanchan, Khanzode L and Jawade S.
Study of correlation between perinatal outcome, placental coefficient and feto-placental ratio.
International Journal of Research in Medical Sciences. April 2015; 3(4): 925-928.
- Kanchankumar P. Wankhede, **Vaibhav P. Anjankar**, Madhukar P. Parchand, N. Y. Kamdi and Sumit T. Patil.
Estimation of stature from head length & head breadth in central Indian population: an anthropometric study.
International Journal of Anatomy and Research. 2015; 3(1):954-957. DOI: 10.16965/ijar.2015.125.
- Manik Sirpurkar and **Vaibhav Prakash Anjankar**. Study of correlation between placental morphology and adverse perinatal outcome in different conditions affecting pregnancy.
International Journal of Reproduction, Contraception, Obstetrics and Gynecology. August 2015; 4(4):1165-1168
- Shema K. Nair, **Vaibhav P. Anjankar**, Sandeep Singh, Maninder Bindra and D. K. Satpathy.
The Study of Cephalic Index of Medical Students of Central India.
Asian Journal of Biomedical and Pharmaceutical Sciences; 04 (28); 2014; 48-50.
- Virendra Budhiraja, Rakhi Rastogi, **Vaibhav Anjankar**, C. S. Ramesh Babu and Prabhat Goel.
Supernumerary Renal Arteries and Their Embryological and Clinical Correlation: A Cadaveric Study from North India.
ISRN Anatomy, Volume 2013, Article ID 405712. <http://dx.doi.org/10.5402/2013/405712>

Sandeep Singh, Shema K Nair, **Vaibhav Anjankar**, Vishal Bankwar, D.K. Satpathy, Yogender Malik.
Regression Equation for Estimation of Femur Length in Central Indians from Inter-trochanteric Crest.

Journal of Indian Academy of Forensic Medicine. July-September 2013; 35 (3): 223-226.

- Kanchankumar P Wankhede, Namdeo Y Kamdi, Madhukar P Parchand, **Vaibhav P Anjankar** and Rajesh Bardale.

Estimation of stature from maxillofacial anthropometry in a central Indian population.

Journal of Forensic Dental Sciences. Jan- June 2012; 4(1): 34-37.

- Dr. Vaibhav Anjankar, Dr. Uddhav Mane, Dr. Kanchankumar Wankhede, Dr. MP Parchand, Dr. Virendra Budhiraja.

Variations of circle of Willis and contributing vessels: a clinic-anatomical study.

Journal of L. N. Medical College. January 2014, 1 (1), 1-6.

- Dr. Vaibhav Prakash Anjankar, Dr. GN Trivedi, Dr. Shema K. Nair, Naresh Thaduri, Dr.Sandeep Singh, Dr. DK Satpathy

Ossified anterior longitudinal ligament: unusual finding in cadavers.

Journal of L. N. Medical College. May 2014, 1 (2), 1-6.

14. List of Current Research Works in the department:

Ongoing Research Project

Sr .No	Topic	Principal Investigator	Co Investigator
1	Estimation of stature through hand length & hand breadth in central India population	Dr. Utkarsh Shrivastava	Dr. Gunwant Chaudhri
2	Study of branching pattern of popliteal artery in central India	Dr. Ashutosh Mangalgiri	Dr. Kanchan Wankhede
3	Study of higher division of Brachial artery in Cadavers	Dr. Ashutosh Mangalgiri	Dr. Kanchan Wankhede
4	Morphometric study of Palmaris longus with clinical tests in central India population	Mr. Vivek Kumar	Dr. Gunwant Chaudhri Mr. Veeresh Kumar T.M.

