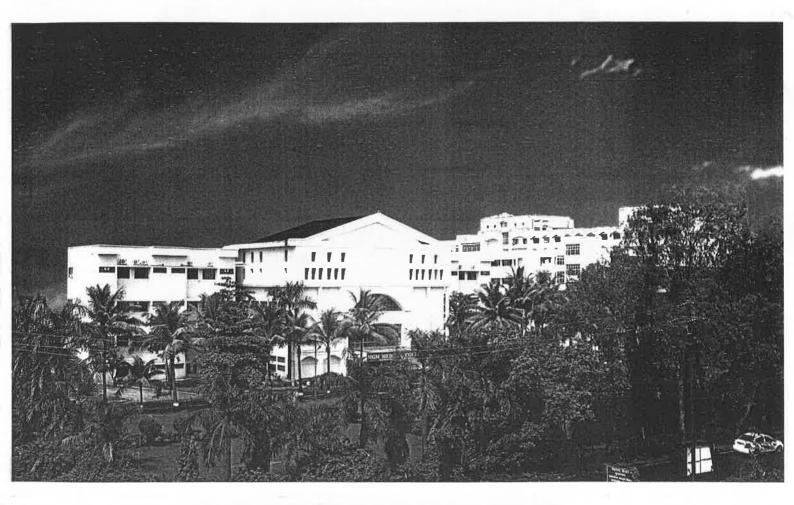
Curriculum for MD Degree in Anatomy



IN PURSUIT OF EXCELLENCE

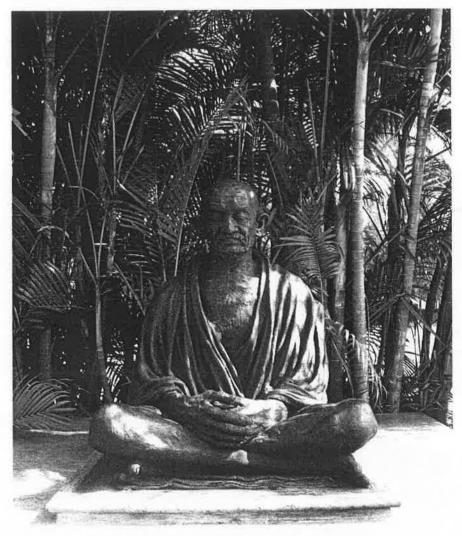


MGM INSTITUTE OF HEALTH SCIENCES

(Deemed University Established u/s 3 of UGC Act, 1956) Navi Mumbai - 410 209

www. mgmuhs.com

INSPIRING MINDS



Mission

To improve quality of the life for individuals and community by promoting health, preventing and curing disease, advancing biomedical and clinical research and educating tomorrow's Physicians and Scientists.

Vision

By 2020 the MGM University of Health Sciences will rank one of the top private Medical Institution. This will be achieved through ground breaking discoveries in basic sciences and clinical research targeted to prevent and relieve human suffering, excellence in Medical Education of the next generation of academic clinicians and intrinsic scientists.

MGM University of Health Sciences will transform the **Education of** tomorrow's Physicians and Scientists conducting Medical **Research** to advance health and improving lives by providing world-class patient care.

Many see the 21st Century as the golden age of biomedical research. The MGM University of Health Sciences will position for leadership at the horizon of this new era to promote and stabilise stand human health with a standard of excellence.

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Chancellor's Message

It is my pleasure to welcome you to join constituent colleges of Mahatma Gandhi Misson's (MGM) University of Health Sciences, Navi Mumbai. I wish to avail this opportunity to apprise you and your parents about the academic excellence of the deemed university.

The MGM University of Health Sciences was established u/s 3 of UGC Act, 1956 vice HRD Notification No.F.9-21/2005-U.3(A) dated 30-8-2006. The MGM University is an outcome of untiring efforts of our educationists, professionals, social activists, technocrat, students and parents. The Mahatma Gandhi Mission Trust that manages the University of Health Sciences and over 40 institutions in Navi Mumbai, Aurangabad, Nanded, and Noida has the vision to empower the masses with the availability of state-of-the-art education. Most of our institutions have ISO certifications that further endorse our commitment to stringent quality standards. I am proud to state that we have succeeded in these accomplishments during our journey of the past 25 years.

I recollect the memories of struggle and determination when the MGM T ust established its two medical colleges, one each at Navi Mumbai and Aurangabad some twenty years ago. Both the medical colleges have grown into institutions imparting both undergraduate and postgraduate courses, and delivering quality health care to communities in their respective areas. While both colleges are engaged in their primary functions of teaching, patient care and research, they have

also excelled in their pursuit for advancement of science and in taking health services to communities through extension programmes. A shining example is the establishment of the Department of Infectious Diseases in 1993 in collaboration with the University of Texas-Houston, USA. This department has established the stateof-the-art clinical services and laboratories for research and care of infectious diseases and received the acclaim of Director General of ICMR when he stated "MGM is the first medical college in India to establish a separate department of infectious diseases. This is the need of the hour." The department has undertaken pathbreaking research and shaped the course of our national control programmes on HIV/AIDS and tuberculosis. The original research of the constituent colleges has been acclaimed among the scientific world globally.

In an era of economic liberalization and the competition among varsities, both in and out of India, the task of grooming professionals who will compete with the best in the world, is tough. To aid our efforts to excel, MGM University of Health Sciences has the latest research facilities, a dedicated research faculty, as well as an array of distinguished visiting faculty members. The quiet ambience of our campuses, the well filled library with subscriptions to international and national journals, and the lush-green gardens add to our accomplishments.

Considering the manpower needs of

educational, industrial agricultural, and health sector to maintain their steady growth, several fresh M.Sc. courses have courses have been launched. M.Sc. courses introduced at

University from the current academic year shall provide knowledge, skills and subsequent employability that are at par with the counterparts in India and abroad. The curricula of the courses have been designed by experts and peer-reviewed with an emphasis on the job requirements of educational institutions, industries, health care, and research institutions. These courses will empower the students to choose a career in a classroom, a research laboratory or an industry. I am happy that the university is ticking towards the pinnacle with the introduction of these value-added postgraduate courses in medical biotechnology, medical genetics and other basic sciences.

Finally, I wish to place on record my gratitude to the founder members, stake-holders, faculty, staff, students and their parents for providing the MGM Trust with your advice and support.

Once again, it is my pleasure to welcome you to join constituent colleges of MGM University of Health Sciences' at Navi Mumbai and Aurangabad.

Kamal Kishore Kadam Chancellor



Dr R.D.Bapat Vice Chancellor



Dr S.N.Kadam Pro Vice Chancellor



Dr N.N.Kadam Director (Examination)



Dr Ajit shroff Dean (Aurangabad Campus)



Dr Z.G. Badade Registrar



Dr G.S.Narshetty Dean (Navi Mumbai Campus)

P.G. CURRICULUM IN THE SUBJECT OF ANATOMY

- A. Goal: To prepare the postgraduate student to become an exemplary teacher and a research scientist par excellence. To achieve this goal, the postgraduate student in Anatomy should be given an overall exposure to the subject, teaching methodologies and a sound grounding in research technologies.
- B. Learning objectives: To achieve this goal, the following objectives must be fulfilled.
- I. Cognitive domain: At the end of three years or postgraduate training the student should be able to

1. Describe the gross anatomy of the human body and correlate the knowledge of structure and function.

2 Describe the microanatomy including cytology of various structures of the human body and compare the knowledge of microstructure with function and interpret it accordingly.

Interpret the anatomical basis of symptoms and signs of clinical

conditions.

diagnostic procedures and treatment modalities.

4. Describe the developmental aspects of human body and interpret the developmental basis of various congenital anomalies.

5. Describe the neuroanatomy in its entirety and interpret the neuroanatomical basis of various clinical conditions.

6. Explain various aspects of genetics and describe genetic basis of disorders and principles of genetics counseling.

7. Explain and interpret radiological anatomy and sectional anatomy of the human body as studied by various imaging techniques.

8. Comprehend surface and living anatomy of the human body.

9. Relate forensic anatomy to the study with medicolegal aspects of bone in particular.

10. Explain the general principles of Anatomy Act and Transplant of Human

Organ Act.

11. Explain the process of embalming.

12 Comprehend ethical aspects of biomedical research.

13. Comprehend the basis of disposal of biomedical waste.

14. Comprehend horizontal integration of various subdivisions of anatomy with relevant physiology and biochemistry.

II. Psychomotor domain: At the end of the training, the student should be able to

1 Dissect and demonstrate various parts of adult human body

2. Demonstrate surface landmarks and living anatomy pertaining to mucle power, testing of nerves and palpating vessels.

3. Dissect and demonstrate various parts of a fetus.

4. Prepare tissue blocks ,perform H&E staining and is able to explain the principles of the following special stains -silver nitrate, periodic acid Schiff, osmic-acid, Masson trichome, Verhoeff and Orcein stains.

5. Prepare and deliver lectures on various topics of human anatomy using audiovisual aids.

6. Operate computers so as to prepare documents, tables, charts and projection slides.

7. Identify research topics; carry out research and prepare a dissertation on a topic.

8. Present paper / poster in conferences.

9. Set undergraduate theory question paper, evaluate students and able to compute results including internal assessment marks.

III. Affective domain: At the end training the students should be able to

1. Co-operate with and react and respond in a cordial manner in his /her interaction with peers, superiors and subordinates.

2. Project a cheerful persona to the students.

3. Inspire the students to reach greater heights.

4. Arouse an element of curiosity and wonder in the minds of students.

5. Maintain a log book (Appendix - I).

6. Develop a healthy personality and a liking and respect for the subject.

C. COURSE DESCRIPTION

I. Eligibility: As per the guidelines of Medical Council of India and affiliated university.

II. Duration: 3 years

The student should have an aptitude for teaching and III. Desirable qualities: reasonable command over spoken and written English language

IV. Details of Training: The P.G. student would be a resident in the department for 3 years. The time-plan and the proposed division of curriculum will be on the following lines.

1. FIRST YEAR OF RESIDENCY

- a. Orientation programme- Institutional and departmental orientation including duties and responsibilities of a postgraduate student.
- b. 'Time Management should be conducted within 3-6 month.
- c. Stress Management- should be conducted within 3-6 months.

d. Gross anatomy: Dissection of one whole human body and study of gross anatomy and acquisition of embalming skills.

e. Microanatomy: Basic techniques in tissue processing, preparation of blocks, microtome sections and H & E and principles of the following special stains -silver nitrate, periodic acid Schiff, osmic acid, Masson's trichome, Verhoeff and Orcein stains.

f. To attend all undergraduate lectures held in the department of Anatomy and all the lectures organized by the university by various PG teachers at

different colleges.

- g. To present the topic for dissertation and the research design in front of a dissertation committee comprising of all senior and PG teachers in the department within first six months of registration. Thereafter periodic assessment of the progress of the dissertation (every 6 monthly) will be done by the concerned PG teacher and if required, by the dissertation committee.
- h. Get trained to use computer for teaching and use the internet

i. Scan Anatomy journals and periodicals.

j. OPTIONAL yet DESIRABLE: To attend all the orations/ seminars/ workshops held for the subject in the city colleges, attend general orations held in the institution and attend regional /national conferences.

k. TEACHING

- i. 70 hours of small group teaching with at least 1/3 of these under supervision by a senior teacher.
- ii. Microteaching sessions are mandatory before small group teaching for each and every session.
- iii. Should be exposed to evaluation techniques.
- iv. Exposure to Medical Education Technology Workshops
- v. Presentation in Journal club.
- vi. Presentation in Seminars and symposia.
- vii. Should complete gross and microanatomy journals.

I. RESEARCH

- i. Basic techniques like review of literature for a given topic and collection of data.
- ii. Exposure to computer for various applications.

2. II YEAR OF RESIDENCY

a. SPECIAL POSTING

Interaction with other pre, para and clinical specialties so as to prime the mind of the P.G. students in Anatomy to the growing needs of application of anatomical knowledge to other branches of medicine. This will be achieved through horizontal and vertical integration.

Posting:

i. Horizontal Integration

(Selected topics should be taken as PG lectures by the concerned departments.)

Physiology and Biochemistry

ii. Vertical integration (Lectures to be arranged by the various departments for PG students)

Radiology, Surgery, Orthopaedics, Medicine, Obs & Gynac, Genetic Laboratory Pathology, Microbiology & Forensic.

(Posting in pathology - to gain knowledge about Frozen-sections, use of cryostat, special immunohistochemical techniques and immunological techniques and morbid and medicolegal anatomy from postmortem.)

During vacation.

b. RESEARCH

Starting the work on thesis by the beginning of second year of residency with the aim to complete the data collection & analysis by the end of second year.

c. TEACHING

- i. From middle of IInd year, the P.G. students in Anatomy should be capable of giving lectures for the entire batch of students.
- ii. Start teaching Embryology and Genetics in small groups after microteaching Sessions.
- iii. Should be conversant with the use of various audiovisual aids
- d. Presentation in Journal Club
- e. Presentation in Seminars / Symposia at the departmental and institutional level
- f. FETAL DISSECTION: Should have dissected at least one fetus

3. III YEAR OF RESIDENCY

a. RESEARCH

Completion of Dissertation

Presentation of paper in conference (optional but desirable) ii.

Writing articles for publication iii.

b. TEACHING

i. Full fledged lectures, lecture-demonstration, small group teaching

ii. Seminars / Symposia

iii. Journal Club

c. DISSECTION - Exercise in window-dissection of various regions.

V. SYLLABUS

1. Postgraduate curriculum shall include the entire undergraduate curriculum as spelt out below (Appendix III) with modifications as under: Levels 1 & 2 of U.G. curriculum will become Level 1 of P.G curriculum.

Levels 3 of U.G curriculum will become Level 2 of P.G. Curriculum Levels.3 of P.G. Curriculum will include current trend and recent advances in the Concerned topic and historical aspects.

2. Additional topics to be covered

a. History of anatomy

b. Embalming techniques

c. Microanatomy

Principles and types of Electron microscopy: TEM, SEM ì.

Identification of various cell organelles and their EM appearance ii.

a. Embryology: Stem Cell.

b. Genetics: a)Exposure to various DNA technologies, including cell culture, Karyotyping, Polymerase Chain Reaction (PCR) and Fluorescent-in-Situ-Hybridization (FISH)

c. Neuroanatomy: Limbic system and Reticular Systems - Details

d. Clinical Anatomy: Application of anatomical knowledge to explain the anatomical basis of various clinical symptoms and signs, diagnostic procedures and treatment modalities

e. imaging Modalities

i. Radiology

ii. Ultrasonography (USG): - Principles of USG, Orientation of anatomical organs, in various USG plates. Structures as seen in 2-D echocardiography axes used and orientation of heart in various axes in 2-D echocardiography.

PET scan: Principles.

f. Forensic Anatomy: Estimation of age and sex

i. With reference to bones including ossification

ii. With reference to radiology pictures

g. Cross-sectional Anatomy and its correlation to C.T. scan images and MRI images

h. Comparative Vertebrate Anatomy: Basic outline

1. Anthropology: Basic principles and anthropometry

D. EVALUATION

I. FORMATIVE: Internal assessment based on

- 1. Teaching: to be evaluated based on a given proforma (Appendix II)
- 2. Dissection
- 3. Log Book
- 4. Journals-Microanatomy and Gross anatomy
- 5. Examinations

a. Theory:

- i. At the end of first year, two papers on general anatomy, gross anatomy, and microanatomy of the
- * Upper half of the body: Head (without neuroanatomy), neck, upper limb, thorax and general anatomy.
- ** Lower half of the body: Diaphragm (Thoracoabdominal), abodomen, lower limb and general microantomy.
- ii. At the end of second year, two papers on
- * Embryology and Genetics (Including a. i. **).
- ** Neuroanatomy and applied anatomy (Including a. i. *)

30% of the paper will be constituted by multiple choice questions of the following types: Single best response, multiple true false, multiple completion and assertion reason:

iii. At the end of third year, preliminary examination as per the university examination

b. Practicals and viva

- i. At the end of first year,
- * Prepare a tissue block, stain and discuss. 10 microanatomy spots.
 - ** Window dissection and viva on Osteology and soft parts.
 - ii. At the end of second year
 - * Viva on embryology models (Including b. i. *)
 - ** Viva on brain (Including a. i. **) -
 - iii. At the end of third year, preliminary examination as per the. university examination.

II. SUMMATIVE

1. By points system – The following point scale should be strictly adhered to Points in fractions should not be assigned.

Point System	Remarks
0(Zero)	Very poor
l(one)	Poor
2(Two)	Below Average
3(Three)	Average
4(Four)	Good
5(Five)	Very Good
6(Six)	Outstanding

a. Theory: 4 papers (As per Direction No. 01/2008 drd 26/05/2008 & practical scheme is as per revised practical marksheet.)

E. LIST OF RECOMMENDED BOOKS

I. Textbooks:

- Cunningham's Manual of Practical Anatomy Latest editions of 15 volumes I, II, III
- Regional & Applied Anatomy R. J. Last
- Clinical Anatomy for Medical Students Richard Snell 2. 3.
- Synopsis of Surgical Anatomy McGregor 4.
- Functional Histology Wheater, Burkit, 5.
- Langman's Medical Embryology 6.
- Embryology by Keith Moore 7.
- Clinical Neuroanatomy Snell
- The Human Nervous System Murray Barr, John Kieman 8. 9.
- Genetics by Emery 10.
- Human Genetics S.D. Gangane
- Essential of Human Genetics by Bhatnagar, Kothari and Mehta 11.
- Cross-sectional anatomy by Bo, Meehan and Kruger 12. 13:
- Principles of General anatomy by A. K. Dutta 14.
- Comparative anatomy A.S. Romer. 15.

Reference Books: П.

- Gray's Anatomy 1.
- Clinical Anatomy NMS Series
- Anatomy for Surgeons Henry Hollinshead 2.
- Surgical Anatomy Harold Ellis 4.
- Bailey's Textbook of Microscopic Anatomy 5.
- Embryology Boyd & Mossman
- Clinically oriented anatomy _ Keith Moore 6.
- 7. Atlas of Human Histology - Di fiore
- Tissues of the Human Body by Le Gros Clerk 8.
- Genetics by Thompson and Thompson 9.
- 10. History of Anatomy - Charles Singer
- History of Anatomy Indian Medicine Kutumbiah 11. 12.
- Dorlands Medical Dictionary 13.

III. Journals:

- Journal of Clinical Anatomy 1.
- Surgical & Radiological Anatomy 2.
- Journal of Anatomy 3.
- Development Dynamics 4.
- Anatomical Record 5.
- Journal of Anatomical Society of India

Appendix I (LOG BOOK)- Not yet FINALIZED

Log book details

Sr.No.	Date	Time	Topic /Activity	T'eacher	Remarks and sign of PG teacher
			2 2		
					8 n 42
			50	0	
					*
ż	×		14		
	41				

^{*}Topic -- Topic of lecture/Demonstration attended Topic of Lecture/Demonstration taught

- *Activity- Dissection Part
 - Microanatomy-Practical
 - Special posting- Department

^{**} Fortnightly submission of the logbook to the concerned PG teacher and signature obtained

MGMIHS MS (Anatomy – Syllabus of Practical)

Annexure -I

Sr. No.	Topic	Particulars
4 11 11	Terminology 1	Planes
1		Common terminology
•	Preservation Technique	
		Embalming
		Plastination
	Anatomy Act	
	Imaging techniques	
	X- Ray	Chest X ray
		Shoulder joint
		Elbow joint
		Wrist joint
		Hip joint
		Knee joint
		Ankle joint
		KUB
		Skull
		Water's view
		PNS
		Neck
		Spine
	Traditional	Principle
	Special technique	Barium
		IVP
	N	HSG
	Cross sectional anatomy	
	СТ	*
	MRI	
	Ultrasonography	
	Color Doppler	
	PET	

	Embalming technique	1
	Museum maintenance	
	Museum mantenation	
	Embryology description	
	Anthropometry	
	Medico legal cases	- Y
2150		
	(6)	
	Service Control of the Control of th	
		Particulars
No.	Region	
IAO:	Super	ior Extremity Extent of breast, Arterial supply, Lymphatic drainage
	Breast (Mammary Gland)	Anterior wall, Clavi-pectoral fascia, Boundaries
		Anterior wall, Clavi-pectoral tasas, & contents' Show axillary vein also
	Axilla	Axillary ,artery and its branches
	Axillary artery and	
	Brachial Plexus	Axillarynerve, Anastomosis around scapula
	Consular Region	
	Typical spinal Nerve Dermatomes	Lateral view, Front view
5	Cubital fossa, Elbow joint	- Padial Median, Ullidi, Museulo
7	Nerves of Superior Extremity	Superficial palmar arch, Palmar spaces Shoulder joint, Radio-ulnar joints.
8	Hand Joint of Upper Limb	
9	loint of apper circu	Inferior Extremity
30	A	Legior & floor Contents, Root, Femoral Sheath of
10	Fermoral Triangle	canal, Femoral artery, Femoral nerve
	Adductor canal and obtrator nerve	
11		
12	Gluteal region	Roof, boundaries and contents, Popliteal artey
13	Popliteal fossa	
14	Hip Joint	
	Great Saphenous vein	
15		Ligaments & interior of joint
16	Knee Joint	
17	Arches of foot	P. Balvis
1		Abdomen & Pelvis

8	Rectus sheath & inguinal canal	
.9	Male genital system	Testis, Male urethra, T. S. of Spermatic cord
0	Peirtoneum	Lasser sac, Mesentery, Epiploic foraman
1.	Stomach	Relations, Blood supply, Lymphatic drainage
22	Caecum & Appendix	Relations, Blood supply, types of caecum, Position of appendix
23	Duodenenum & Spleen	Visceral surface of spleen, Relations, Blood supply Interior of II part of duodenum
24	Liver	Extra-Hepatic, Biliary apparatus, Relations of inferior surface of liver
25	Portal ven	Portal vien and tributaries, sites of porto-caval 16Anastomosis
26	Pancreas	Relations, Blood supply, Duct pattern, Lymphatic Drainage Relations, Blood supply
27	Supra-renal	Relations, Blood supply
28	Kidney	Relation TS of Kidney, Vascular segements
29	Diaphragm	
30	Ovary & Uterine tube	Relations, Blood Supply
31	Urinary Bladder	Relations, Supports interior
32	Prostate	Relatios, Lodes, Capsules
33	Uterus & Cervix	Position, Relation, Interior, Supports
34	Rectum & Anal canal	Position, Relation, Interior
35	Perineum	Perineal membrance, Ischiorectal fossa, Superficial perineal pouch
	7.	Head, Neck & Brain
36	Scalp	Layers of scalp, Nerve & blood supply
37	Side of the neck	Antern Tringle, Postrior Tringle of neck
38	Dural sinuses	Cavernous sinus, Superior sagittal sinus
39	Orbits *	Extrinsic muscles if eye ball Ophthalmic artery and its branches.
40	Parotid gland	
41	Submandibular region :	Submandibular gland, structers over hypglossus, Relations
42	Thyriod gland	Blood supply
43	Cervical sympathetic system	
44	Cervical lympus nodes	

			Exterior, Interior of pharynx
1	Pharynx		
	Tonsil, Au	ditory tube	Lateral wall of nose, Septum of nose
	Nasal cav	ity	Cartilages, Interior Muscles and Igaments
	Larynx	18 a	Muscles, Blood supply, Lymphane drainage
	Tonge		- Oculomotor nerve
)	Cranial r	nerves	Mandibular nerve, Accessory spinal nerve,
		*	Hypoglossal nerve.
1	1 · · · · · · · · · · · · · · · · · · ·	, i i	Thorax
		instal	
52	Conten	its of typical intercostal and typical spinal nerve.	
	Space	nopulmonary segments	a: http://entricle
53		or of heart	Right atrium, Right ventricle
54	1	supply of heart	Coronary arteries, veins
55			Branches, Relations
56		of aorta	a total
57		os venous system	General plan Grey mater, White mater, Central canal
58		S. of spinal card	Pyranmidal decussation, sensory decussation
59		of mediulla oblongata	
60	Floo	or of fourth Ventricle	T. S. at- Lower pons, Upner pons
61	Por	ns	T. S. at Superior collicluc, T. T. at- Interior colliculus
	Mi	d-Brain	Superolateral surface, (Showing cerebral sulci and
62		rebrum	curi functional areas and blood of the
63	1		Tract of Gall and Burdach
64	1	scending tract	Cortispinal tacts
65	Ď	escending tract	
66	- V	isual pathway	
67		Auditory pathway	LS showing internal capsule and corpus striatum
68		Cerebrum	
68	+		General Embryology
		Human Karyotype	
6	9	Ogenesis, spermatogenesis	
7	0	Ogenesis, spermatogenesis, Blastocyst, yolk sac, Notoch	nord, chorionic cillus
7	11	Blastocyst, yolk sac, Notoch	Systemic
			Ala

72	Pharyngeal arches, Tongue development Development of a plate and anomalies, development if thyriod
73	Development of stomach, caecum appendix, rectum and anal canal
74	Development of liver, gall bladder pancreas and spleen
75	Male genital tract development
76	Female genital tract development
77	Urinary system
78	Development of heart
79	Neural tube derivatives, neural crest derivaties
80	Development of suprarenal and pituitary glands
81	Development of eye ball

TOPICS	SUBTOPICS
1. The Microscope	
TYPES OF MICROSCOPES	
LIGHT MICROSCOPE:	PRINCIPLE
COMPOUND MICROSCOPE	
	PARTS AND PRINCIPLES
	USES
*	RESOLUTION
	ADVANTAGES/ DISADVANTAGES
DIGITAL MICROSCOPY (NEW EDGE ADDED TO MICROSCOPY)	
PHASE CONTRAST MICROSCOPY	PRINCIPLES
	USES
*	ADVANTAGE AND DISADVANTAGES
FLOROSANCE MICROSCOPE	PRINCIPLES
2011007.11102.11110	USES
	ADVANTAGE AND DISADVANTAGES
ELECTRONE MICROSCOPE	
SCANNING ELECTRONE MICROSCOPE	PRINCIPLES
	USES
c	ADVANTAGE AND DISADVANTAGES
TRANSMISSION ELECTRON MICROSCOPE	PRINCIPLES
5	USES
90	ADVANTAGE AND DISADVANTAG
ATOMIC FORCE MICROSCOPY	
MICROMETRY	*

- 11		CELL PLASMA MEMBRANE:
The Cell	0-11	organelles:
	a. N	lembrane bound : i) Mitochondria ii) Golgi apparatus iii) Smooth endoplasmic
	ret	culum iv) Rough endoplasmic iculum v) Lysosomes Nonmembrane bound: i) Microtubules ii) Free Ribosomes
		olysomes iii) Microfilaments iv) Centriole v) Inclusions/ Pigment / Granules
		Nucleus Junctional Complexes
HISTOLOGY TECHNIQUE		
SELECTION OF TISSUE TISSUE PRESERVATION Common fixing agents		IDEAL TYPES PRINCIPLES USES ADVANTAGESI DISADVANTAGES Formaldehyde (HCHO) Potassium dichromate Picric acid Acetic acid Ethyl alcohol (Ethnol) 10% frormal saline (Buffered soluntion)
Tissue processing:	•.	10% frormal saline (Bunered Sold Heavy) Murcuric chloride – formalin (formal sublimate Zenker's Fluid: Bouin's Fluid Dehydration Clearing Wax impregnation Other type of imprenation: Storage of paraffin blocks
Automatic tissue processing Other embedding methods Microtome		Rocking microtome
Microtome		COMP 1 14 M

	Rotary microtomes Freezing microtomes Knives: Knife sharpening Section cutting
Manipulation and mounting of sections	
Preparation of frozen section:	
Standard staining methods	
Special stain:-	PAS Masson's trichrome stain
Epithelium	General features Simple
	Stratified Transitional
70 me	Pseudostratified
	Ultrastructure Cilia
	Microvilli
4	Stereocilia
	Kinocilia
Connective Tissue	General consideration
	Cell
	Fibers
7	Ground substance
	Loose areolar tissue
,	Adipose tissue
	Tendon
Cartilage	General consideration
``	Hyaline cartilage
	Articular cartilage.
2 * 5	Costal cartilage
	Elastic Cartilage
	Fibrocartilage
Bone	Ground bone (Dried compact bone) T. S.
Bone	Developing bone L. S.
Muscle Tissue	Striated muscle
Muscle Hssuc	Cardiac muscle
	Smooth muscle
10	Ultrastructure of muscle
Nervous Tissue	Structure of neuron
iAGLAON2 11220C	Types of neurons
	Neuroglial cells
	Nerve
	Ultrastrucute
Blood vessels	Cellular components

∋)

	Types vessels
	Basic immunology
Lymphoid Tissue	Lymphoid tissue:
	Lymph node
,	Thymus
	Spleen Tonsil
	Tollsii
Consideration	Exocrine (Acinous and duct
land - General Consideration	Endocrine (Cell and capillary)
	Paracrine
faceration	Apocrine
According to mode of secretion	
2	Holocrine
	Merocrine
- water unit	Tubular:
According to the shape of secretory unit	Tubular coiled
	Tubulai dollo
	Alveolar
	Tubuloalveolar
	According to the duct
	Simple unbranched
	Compound branched:
Integumentary System	Lip, Tongue, Teeth
Gastrointestinal Tract	Lip, Torigao, Tes
Gastromeood	Salivary glands (Exocrine)
*	
	- Duodenuni Small messili,
,	Liver Gall bladder and Fanctous
	Epigionis
Respiratory System	Trachea T. S.
	Bronchus T. S
	Lung
	Kidney
Urinary System	Ureter T. S
0.,,,	Urinary bladder
	Testies
Male Reproductive system	Epedidemis
Male Reproduct	Epediaeims

	Vas difference
	Prostate
Female Reproductive system	Ovaries
Female Reproductive system	Fallopiean tube
	Uterus
	Pitutary
Endocrine	Thyroid
3 / 3 / 5 / 5	Suprarenal
	Spinal cord
Nervous System	W .
	Cerebellum Cerebrum
	Cerebran
Organs of Special senses	Cornéa
Eye .	Retina
	Sclerocorneal junction
Ear	Organ corti
Genetics	Introduction
	Branches of Genetics
• · · · · · · · · · · · · · · · · · · ·	Mendel's Laws of Inheritance
11	Chromosomes and Sex chromatin
egge vit	Human chromosome
	Classification
	DNA structure, Codon and Gene
Molecular Genetics:	Structure of RNA and Protein synthesis
	V .
N. N.	Cell Cycle
	Cytogenetics
	Mitosis and Meosis
4	Chromosomal Disorders
	Common chromosomal number disorders
	Modes of inheritance and Gene disorders
	Haemoglobin disorders
•	Immunogenetics
	Genetics and Cancer
	Developmental Genetics
	Genetic counseling
	Human Genome Project
	Stëm Gell
1	

Cell culture/ Tissue culture

MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI

MARKLIST FOR PRACTICAL AND VIVA-VOCE EXAMINATION

EW ARE CERTIFIED	
EXAM CENTRE:	COURSE / EXAM : PG -
DATE OF EXAMINATION:	EXAMINATION FOR:_M.D. (ANATOMY)

Seat No.	1			2							3					Grand
	Long Case				Viva/Orals								Total Practical			
		1 Microanatomy 100 (5x8) marks 40		Genetics Histology Chart -1 Techniques	Total	A B 40 30		С	D	E	F	G	Dissert	Total	Total	
			(5x8) 10 10 50		110 marks			40	20	20	20		190	Marks (1+2+3)		
4																

NAME OF EXAMINER	COLLEGE	SIGNATURE WITH DATE
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viii)	M.D.	ANATOMY	11	Conord and many	
ving	IVI.D.	AIVATOINT	1.	General and gross anatomy including corresponding microanatomy and embryology and clinical anatomy of Head Face, Neck and Thorax.	
			11.	Gross anatomy including corresponding microanatomy and Embryology and clinical anatomy of Abdomen, Pelvis and Perineum and superior and inferior extremity.	
			111.	Neuroanatomy including corresponding microanatomy, embryology and clinica anatomy.	
		IV.	Genetics, Radiological Anatomy Sectional Anatomy, Clinical Anatomy and Recent Advances.		
	-MD	Psychiatry		Basic Sciences – Neuroanatomy Neurophysiology, Psychology and thei applications	
		II	Neuropsychiatry, Liaison Psychiatry		
			M->	Clinical Psychiatry Part - 1	
				JV-	Clinical Psychiatry Part -2 with Recen
	MD	Biochemistry	I	General Biochemistry and Instrumentation	
			11	Metabolism and Nutrition	
		2	$^{\prime\prime}$	Clinical Biochemistry	
			M	Molecular Biology, Biotechnology and Recent Advaces in Clinical Biochemistry	
	MD	Respiratory Medicine	Í	Basic Sciences – Anatomy, Physiology Pathology, Microbiology, Pulmonary and extra pulmonary T.B., Public Health Surgical aspects	
)IV	Non-Tubercular Pulmonary Diseases	
		/	W \	Internal Medicine as applied to pulmonar Medicine	
		1 /	IV	Recent advancement in pulmonar medicine	

IN PURSUIT OF EXCELLENCE

MGM DEEMED UNIVERSITY OF HEALTH SCIENCES

Constituent Colleges

Navi Mumbai



M.G.M School of Biomedical Science

W.G.W School of Biomedical Science

M.G.M School of Physiotherapy M.G.M New Bombay College of Nursing

M.G.M College of Nursing

Aurangabad

M.G.M. Medical College

M.G.M School of Biomedical Science M.G.M School of Physiotherapy M.G.M College of Nursing



MAHATMA GANDHI MISSION



AURANGABAD



- · MGM's Institute of Management
- MGM's Mother Teresa College of Nursing
- MGM's Mother Teresa Institute of Nursing Education
- MGM's College of Journalism & Media Science
- MGM's Medical Center & Research Institute
- · MGM's College of Fine Arts
- MGM's Dr. D. Y. Pathrikar College of Comp. Sc. & Tech.
- MGM's Hospital & Research Center
- MGM's College of Agricultural Bio-Technology
- · MGM's Dept. of Bio-Technology & Bio-informaties.
- MGM's Inst. of Hotel Management & Catering Tech.
- · MGM's Institute of Indian & foreign Languages & Comm.
- · MGM's College of Physiotherapy
- MGM's Hospital, Ajabnagar
- MGM's Sangeet Academy (Mahagami)
- MGM's Institute Naturopathy & Yoga
- MGM's Sports Club & Stadium
- · MGM's Institute of Vocational Courses
- · MGM's Horticulture
- MGM's Health Care Management
- MGM's Junior College of Education (Eng. & Mar.)
- MGM's Sanskar Vidyalaya (Pri. & Sec. Mar.)
- MGM's Clover Dale School (Pri. & Sec. Eng.)
- MGM's First Steps School (Pre-Primary English)
- MGM's Sanskar Vidyalaya (Pre-Priamary Marathi)
- MGM's School of Biomedical Sciences

NAVI MUMBAI



- MGM's College of Engineering & Technology
- MGM's Institute of Management Studies & Research
- MGM's Dental College & Hospital
- MGM's College of Physiotherapy
- MGM's College of Media Science
- · MGM's Institute of Research
- · MGM's New Bombay Hospital, Vashi
- MGM's Hospital, CBD
- · MGM's Hospital, Kamothe
- MGM's Hospital, Kalamboli
- MGM's Infotech & Research Centre
- MGM's Pre-Primary School (English & Marathi)
- MGM's Primary & Secondatry School (Eng. & Mar.)
- MGM's Junior College Science
- MGM's Junior College of Vocational Courses
- MGM's Florence Nightingale Inst. Nursing Edu.
- MGM's College of Nursing
- MGM's College of Law

NANDED



- · MGM's College of Engineering
- · MGM's College of Fine Arts
- MGM's College of Computer Science
- MGM's College of Journalism & Media Science
- · MGM's Centre for Astronomy & Space Tech.
- MGM's College of Library & Information Science

PARBHANI

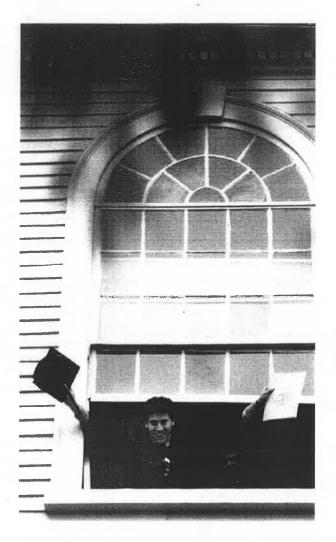


MGM's College of Computer Science

NOIDA (U.P.)



MGM's College of Engineering & Technology



MGM University of Health Sciences (Education - Health Services - Research) A Mission started, nurtured and Managed by Professional Doctors, Scientists Engineers...





MGM INSTITUTE OF HEALTH SCIENCES

(Deemed University u/s 3 of UGC Act, 1956)

Post Box -6, MGM Educational Complex, Sector-18, Kamothe, Navi Mumbai – 410209 Ph: -022-27422471, 65168127, 65138121 Fax: 022-27420320 E-mail: mgmuniversity@mgmuhs.com Website: www.mgmuhs.com

Resolution passed in BOM – 48/2017, dated 24/01/2017

Resolution No. 5.25: Resolved to institute 6 monthly progress Report for PG Students of all Courses from the batches admitted in 2016-17. [Annexure-XVII of BOM-48/2017]

Wahatma Gandhi Wission's Wedical College and Hospital Navi Wumbai

Six monthly Progress Report for Postgraduate Students

	PARTA	
Name of the PG student	• · · · · · · · · · · · · · · · · · · ·	
Department:		
Admitted in (Month and	Year):	
Name of the PG guide:_	\$	The state of the s
Report for the period:	to	
Attendance:	days (%)	
	<u>PART B</u>	

Grading as per performance

Grade	Percentage	```
Α	86% and above	
В	65% to 79%	
C	50% to 64%	1
D	Below 50%	

- 1. OPD work:
- 2. Ward work:
- 3. Lab work:
- 4. OT work:
- 5. ICU work:
- 6. Teaching assignments:

PARTO

		Progress of Thesis		
	***************************************	PART D	e entre e Augus para	
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1. Papers presented

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2. Posters presented

Sr.	1404	Title of Poster	· .	Authors	Event	Date
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3. Publications

(Note: Mention only those publications that are published or are accepted for publication during the said period only)

Sr. No. ·	Title of Paper	Authors	Journal	Year/Vol/ Issue	Page Nos	Indexed/ Non- Indexed	Status
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5. Journal Clubs

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6. Marks obtained in tests

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1. Papers presented

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2. Posters presented

Sr. No.	Title of Poster	Authors	Event	Date

3. Publications

(Note: Mention only those publications that are published or are accepted for publication during the said period only)

Sr. No.	Title of Paper	Authors	Journal	Year/Vol/ Issue		Indexed/ Non- Indexed	Status
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Resolution No. 1.3.7.13 of BOM-51/2017: Resolved to accept PG Topics (50 hrs)— Anatomy, Physiology, Biochemistry Annexure-IV

Annexure-VI

DEPARTMENT OF ANATOMY POST GRADUATE LECTURES / FACILITATION

	FIRST YEAR -	NO of Lect
!	Introduction to department and Induction program.	ì
2	Introduction to Anatomy & Objective of post graduation.	1
3	Anatomical terminologies & language of medicine.	1
4	Learning teaching skills.	1
5	Small group vs Large group teaching.	1.
6	Microteaching - I	1
7	Microteaching - II	1
8	Student centric teaching.	1
	Research methodology.	the same that the same of the same state of the
9	Selection of topic & sample size.	1 .
1()	Teaching learning ethics.	1
11	Cadaver handling / Ethics.	1
	General Anatomy.	
12	An Overview of Tissue of body.	1
13	An Overview of Cartilage and bone	1
14	An Overview of Joints.	1
15	An Overview of Muscles.	1
16	An Overview of Lymphatic System.	1
17	An Overview of Nervous system.	1
18	An Overview of Cardio vascular system.	1
19	Imaging technique.	1
	Super Extremity	
20	Overview of extremity & organ of prehension.	1
21	Shoulder girdle.	1
22	Mammary gland.	1
23	Axillary artery & axillary lymph nodes brachial plexus.	1
24	Dermatomes of superior & venous drainage of superior extremity.	1
25	Cubital fossa & elbow joint.	1
26	Radioulnar joint and supination and pronation.	1
27	Medial and ulnar nerve.	1
28	Radial and axillary nerve.	1
29	Pamar spaces and I st carpometacarpal joint.	1
30	Hand grips.	
	Thorax	
31	Thoracic cage & mechanism of respiration.	1
32	Mediastinum.	1
33	Lung and bronchopulmonary segments.	1
34	Heart chambers and blood supply.	
35	Conducting system of heart.	1
36	Azygous system of veins.	

11.10.12

37	Vertebral column.	1
	Histology	A STATE OF THE STA
38	Microscope and Histology Techniques.	
39	Collection of tissue and tissue processing,	
40	Cell.	
41	Epithelium-1	1
42	Epithelium- II	1
43	Glandular Epithelium]
44	Cartilage & Bone I.	1, , , , , , , , , , , , , , , , , , ,
45	Cartilage & Bone II.	1
46	Muscles.	1
47	Nervous Tissue.	
48	Artery, Aorta and vein.	[]
49	Lymph node. Spleen and tonsil	1
50	Thymus and Immunity.	1
	General Embryology	
51	Embryology and developmental biology & its Historical overview.	1
52	Gametogenesis.	1
53	Fertilization & bloastocyst.	1
54	Implantation & germ layer formation with notched.	I I
55	Folding of embryo & body axis plan.	1
56	Placenta.	1
57	Twinning & teratology.	1
	Total	57

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DEPARTMENT OF ANATOMY

POST GRADUATE LECTURES/FACILITATION

	Second Year	NO of Leet
	Communication skill.	A STATE OF THE PARTY OF THE PROPERTY OF THE PARTY OF THE
2	Effective use of media.)
3	Body donation.]
4	Histology techniques.	2
5	Adult learning.	
6	Review of literature]
$T \sim 1$	Design material method:	
8	Observation .	1
()	Statistics.	1
1()	Privacy, confidentiality & PCPNDT.	1
11	Medical Ethics & Mentorship.	1
~~~~~~~	Abdomen	
12	Inguinal canal.	1
13	Rectus sheath.	1
14	Testis.	1
15	Peritoneum.	2
16	Stomach.	1
17	Ccacum and appendix.	1
18	Pancreas.	1
19	Duodenum.	1
20	Extrahepatic billary apparatus and portal vein.	1
21	Kidney.	1
22	Autonomic nervous system of abdomen.	1
23	Ischiorectal fossa.	1
2.4	Urinary bladder.	1
25	Perineal pouches.	1
26	Prostate gland.	1
27	Male urethra.	1
28	Uterus.	
29	Rectus and anal canal.	1
30	Sections of abdomen.	1
31	Other imaging techniques.	1
	Histology	
32	General plan of GIT - oesophagus & stomach.	1
33	Small intestine, large intestine & appendix	
34	Liver	1
35	Pancreas and gall bladder.	1
36	Epiglottis, trachea.	
37	Bronchus and Lungs	
38	Kidney.	2
39	Ureter & Urinary bladder.	1 2

DEPARTMENT OF ANATOMY

POST GRADUATE LECTURES/FACILITATION

4()	Testies.	1.
41	Epidydemis, vas deferens & prostate.	1
42	Ovary.	1
43	Fallopian tube and umbilical cord.	[
44	Uterus.	I
45	Mammary gland and Placenta	1
46	Skin scalp.	1
	Embryology	
47	Oesophagus, 1 ²⁴ part of duodenum and stomach]
48	Intestines, umbilical homia and its reduction	1
49	Anomalies of rotation of gut and liver, gall bladder, pancreas and spleen	I
50	Rectum, anal canal and its anomalies	1
51	Pronephros, mesonephros and metanephors	1
52	Histogenesis of kidney and ureter	1
53	Ascent of kidney and anomalies	1
54	Urinary bladder, prostate and urethra and anomalies	1
55	Male genital organs and anomalies	1
56	Female genital organs and anomalies	1
57	Primitive blood vessels, heart tubes and formation of chamber and folding of heart tubes	1
58	Atrial and ventricular division, formation of chambers]
59	Division of truneus arteriosus and chambers of heart	1
60	Development of skeletal system	2
	Inferior extremity	
61	Femoral triangle, femoral sheath and canal	1
62	Adductor canal and obturator nerve	1
63	Gluteal region	ı
64	Popliteal fossa	I
65	Hip joint	1
66	Cutaneous nerves and venous and lymphatic drainage	1
67	Knee joint]
68	Sole of the foot	1
69	Arches of foot and mechanism of walking	1
	Total	73

DEPARTMENT OF ANATOMY

POST GRADUATE LECTURES/FACILITATION

era, rayunan habi kurabahahah ku yaya	Third Year	NO of Lect
	Theory evaluation and paper setting	1
2	Methods of assesment]
3	Early Clinical exposure	
	Research methodolgy	
4	Discussion, summary and conculsion	
5	Citation	1
6	Plagiarism	?
	Head, Neck and Face	M delta I u.
7	Scalp	1
8	Pascia of neck and cervical lymph nodes	1
9	Muscles of facial expression and lacrimal apparatus	1
10	Cavernous sinus	1
11	Thyroid gland	1
12	Subclavian artery	1
13	Tongue and hypoglossal nerve	1
14	Extraocular muscles and movements of eye hall	1
15	Muscles of mastication, Mandibular nerve and otic ganglion	1
16	Submandibular region	1
17	Parotid gland and facial nerve	1
18	Tempromandibular joint	I
19	Soft palate and tonsil	1
20	Muscles of pharynx and deglutition	1
21	Nasal cavity	1
22	Muscles of larynx and phonation	1
23	3 rd , 4 th and 6 th cranial nerves	1
24	9 th , 10 th , 11 th nerves	1
25	Middle ear]
26	Imaging in HNF	1
	Central nervous system	
27	Spinal cord I	1
28	Spinal cord II	1
29	Spinal cord III	1
30	Medulla oblongata I	1
31	Medulla oblongata II	}
32	Pons	1
33	Cerebellum	1
34	Mid brain	1
35	Functional areas and blood supply of cerebrum	1
36	White matter of cerebrum (Internal capsule)	1
37	Hypothalamus	1

DEPARTMENT OF ANATOMY POST GRADUATE LECTURES/FACILITATION

10	POST GRADUATE LECTURES/FACILITATION	
38	Thalamus	3
39	Limbic system	1
40	Reticular formation	
4)	Ventricular system of brain	1
42	Basal ganglion	
43	Secctions of brain	
44	Imaging technique in CNS	1
*****	Histology	
45	PTTUTARY GLAND, SUPRARENAL GLAND	
46	THYROID AND PARATHYROID	1
47	SPINAL CORD, CEREBRUM	1
48	CEREBELLUM	l l
49	CORNEA, RETINA AND LENS	1
50	INTERNAL EAR	1
51	Tissue processing and staining	1
52	Maintanance of instuments	1
53	Special staining	1
	Embryology	
54	Pharyngeal pouches and arches	<u> </u>
55	Respiratory system and anomalies	1
56	Face and oral cavity and its anomalies	1
57	Gum, cheek and salivary glands and tooth	1
58	Development of skin	1.
59	Nervous system formation of neural tube and plexus	1
60	Histogenesis of neural tube, ventricles, spinal cord, brain stem and cerebellum	1
61	Neural crest cells, adrenal gland and hypophysis cerebri	1
62	Eye ball and lacrimal apparatus	1
63	Ear	1
64	Developmental genetics	2
	Genetics	
65	Introduction to genetics and its branches	1
66	Human chromosome and sex determination	
67	Genes, Genetic code and gene mutation	1
68	Chromosomal aberration and types	1
69	Mendelian laws and application in human genetics	2
70		
	Common chromosomal abnormalities	3
71	Hamatologic and immunological genetics	1.
72	Cell cycle and cancer genetics]]
73	Prenatal testing and genetic counseling	2
74		
74	Human genome project and Ethics Total	1 80

Resolution No. 1.3.7.11 (i) of BOM-51/2017: Resolved that the following Bioethics topics in PG Curriculum are to be included for PG students of all specialization and a sensitization of these topics can be done during PG Induction programme:

- Concept of Autonomy
- Informed Consent
- Confidentiality
- Communication Skills
- Patient rights
- Withholding / Withdrawing life-saving treatment
- Palliative Care
- Issues related to Organ Transplantation
- Surgical Research and Surgical Innovation
- Hospital Ethics Committee
- Doctor-Patient relationship

Resolution No. 1.3.23 of POM-51/2017: Resolved to implement a Structured Induction programme (07 days) for PG students. [Annexure XLIV]

MGM INSTITUTE OF REALTH SCIENCES Novi Manadai

Induction Program for newly admitted Postgraduate students

Day 1	 Address by Dean, Medical Suptd 	, Director (Academics)
	 Pre-test 	· · · · · · · · · · · · · · · · · · ·
;	 Communication Skills 	
	 Universal Safety Precautions 	
	 Biomedical Waste Management 	
n primary that he desire of many primary file that is the file of the relative for the second section with the	 Infection Control Policy 	
Day 2	 Emergency services 	
•	 Laboratory services 	
	 Blood Bank services 	
	 Medicolegal issues 	
	 Prescription writing 	
* * *	 Adverse Drug Reaction 	
and the same of th	 Handling surgical specimens 	
Day 3	 Principles of Ethics 	
or, sayang	 Professionalism 	a di mangangan kanang kapanan andarah mang pa
	Research Ethics	
	 Informed Consent 	
	 Confidentiality 	
	 Doctor-Patient relationship 	
Day 4	 Research Methodology 	
Day 5	 Synopsis writing 	
	 Dissertation writing 	
Day 6	Statistics	
Day 7	AILS	
•	Post-test	

The Induction Program will be conducted in the first week of June. Timing: 9.30 am to 3.30 pm

(Prof. Dr. Siddharth P. Dubhashi)
Director (Academics)

Resolution No. 3.5.6 of BOM-52/2018:

- (i) Resolved to have allied postings for MD Anatomy, MD Physiology and MD Biochemistry as mentioned below, with effect from batch admitted in 2017-18 onwards:
- 1) MD Anatomy -
 - a. Pathology 2 weeks
 - b. FMT 2 weeks
 - c. Radiology 4 weeks
 - d. Genetics 2 weeks

NOTE: MD Student from Aurangabad campus can be deputed for genetics posting in Navi Mumbai campus.

Resolution No. 3.5.7 of BOM-52/2018: Resolved to include the below mentioned topics of Bioethics in PG Curriculum, with effect from batch admitted in 2016-17 onwards:

- (i) MD Anatomy:
 - 1. Biomedical waste disposal
 - 2. Laboratory quality assurance
 - 3. Genetic counseling

*PG student should attend cadaveric oath with UG students

(iv) Further it was also resolved to include the above Bioethics topics in respective PG handbooks.

Resolution No. 4.5.4.2 of BOM-55/2018: Resolved to have 10 short notes out of 11 (10 marks each) in all the papers in university examination for PG courses including superspeciality. To be implemented from batch appearing in April/May 2019 examination onwards for MD/MS/Diploma and August/September 2019 examination onwards for superspeciality.