



MGM INSTITUTE OF HEALTH SCIENCES

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

Grade 'A' Accredited by NAAC

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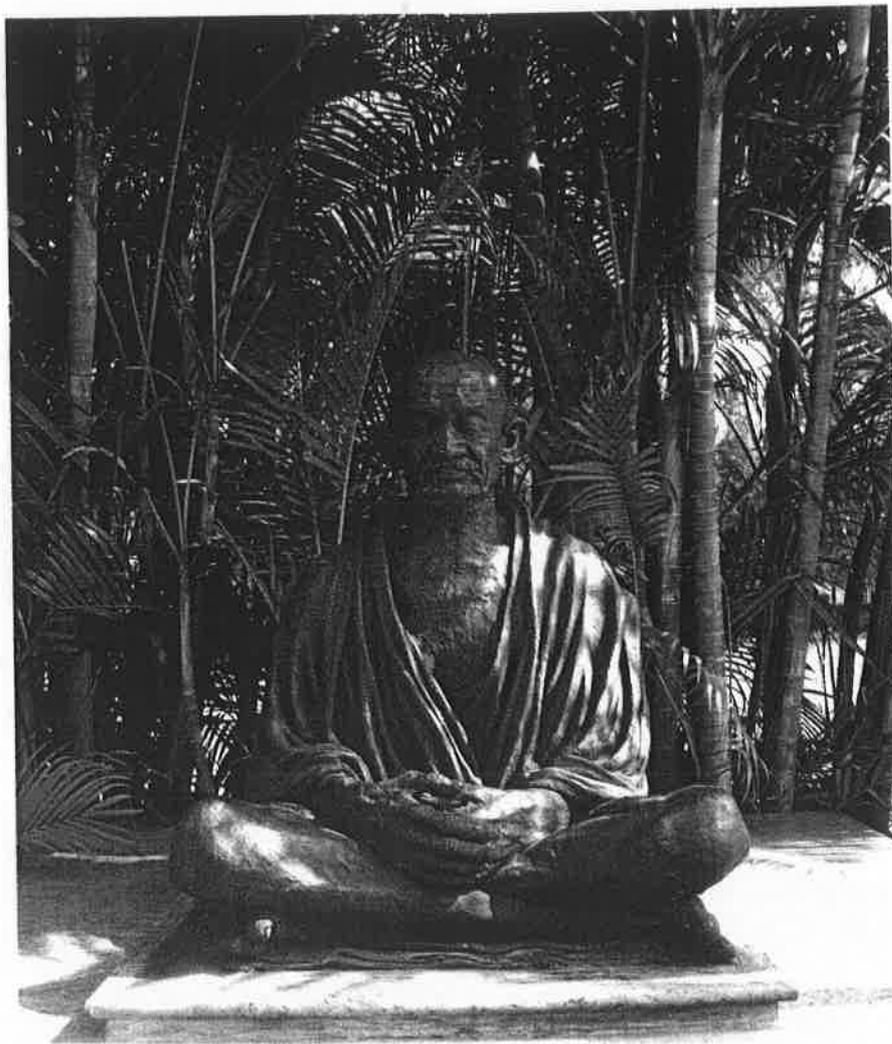
Curriculum for Diploma in Ophthalmology

Amended upto BOM- 55/2018, Dated 27/11/2018.

Amended History

1. Approved as per BOM– 04/2007, Item 12.1, Dated 14/12/2007.
2. Amended as per BOM-51/2017, [Resolution No. 1.3.23], [Resolution No. 1.3.7.11]; Dated 28/08/2017
3. Amended as per BOM-55/2018, [Resolution No. 4.13], [Resolution No. 4.5.4.2], Dated 27/11/2018.

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.

DIPLOMA IN OPHTHALMOLOGY(D.O.)

Objectives:-

1. Posses the basic knowledge of the structure, function and development of the human body as related to ophthalmology
2. Clinical knowledge should be such so as to be able to practice and handle most day to day problems independently
3. Candidate should be able to integrate the preventive and promotive methods with curative and rehabilitative measures in treatment of disease
4. Should practice ophthalmology at the door step of community

I. BASIC

1. Anatomy and embryology of eye
2. Orbit-anatomy and contents
3. Physiology of eye
4. Physiology of vision-

- visual acuity, accommodation, pupillary reflexes, light and dark adaptation, colour vision
- Tear film, aqueous and vitreous
- Visual fields
- Eye movements
- Stereopsis

5. Retinal Neurochemistry
6. Ocular Pharmacology
7. Ocular Microbiology
8. Ocular Pathology
9. Optics and Refraction
10. Optical Principles of Refractive Surgery

II. CLINICAL:

1. Trauma and emergency ophthalmology
2. Disorders of lids, lacrimal drainage apparatus, orbit
3. External eye disease- sclera, cornea and anterior uvea
4. Optics and Refraction
5. Disorders of lens
6. Glaucoma
7. Retina- Diabetic and Hypertensive Retinopathy
8. Community Ophthalmology
9. Investigative Ophthalmology- USG (A and B Scan),
Perimetry

III. Teaching of Clinical Ophthalmology is done while working in wards, OPDs, OTs and Speciality Clinics

LECTURE SERIES

1. Ocular injuries
2. Cataract – types and surgeries
3. Glaucoma
4. Cornea – KCS, Keratoconus, Keratoprosthesis
5. Uvea
6. Optics - refractive errors, schematic eye
7. Retina – retinal detachment, exudative retinal detachment, RIOFB, ARMD, Diabetic Retinopathy, Hypertensive Retinopathy
8. Lasers in Ophthalmology
9. Investigative Ophthalmology – USG , FFA, Electrophysiology ,OCT, DCG, MRI
10. Visual and Pupillary Pathways
11. Lids – ptosis, lid deformities
12. Dry eye
13. Vitreous – haemorrhage, degeneration, endophthalmitis, vitrectomy
14. Lacrimal Apparatus- Dacrocystitis, Tumors

EVALUATION

The evaluation of candidates is done at the end of the course under the following headings

1. The resident shall be required to demonstrate a comprehension of basic knowledge of the subject by answering three papers of 3 hours each to the satisfaction of the board of examiners.

The theory examination shall have the following pattern:

- a. First paper- Anatomy, Physiology and Optics of the eye
- b. Second paper- Ophthalmic Medicine and Surgery
- c. Third paper- Ophthalmology in relation to Medicine and new innovations and techniques

All three papers should have a minimum of twenty five percent of MCQs of high standard 25% SAQ and 50% LAQ.

Each paper should be of one hundred marks

A candidate needs to score at least fifty percent marks to pass after which the candidate will be permitted to appear in the practical examination

2. The resident shall be evaluated in all fields of the instruction areas of work and demonstrate skills to elicit history, examine, diagnose and treat (medically or surgically or both) cases in out patient department and admitted cases including the relevance of investigative procedures in the case under discussion. The resident will be required to see and interpret X-rays, charts, laboratory reports and special investigations pertaining to these cases.

3. The resident may be required to demonstrate the use of appliances and specialized diagnostic techniques including their utility and limitations
4. The resident will be required to report on specimens and slides of pathology
5. Oral viva on any aspect of speciality
6. Instruments and Operative understanding is evaluated
7. The marking for practical examination will be as follows:-

OSCE	50 marks (x10 spots)
Clinical cases	200 marks (1 long) (2 short)
Demonstrations	50 marks (Skill to use the equipment)
Oral viva	100 marks
Total	400 marks
50% to pass	

A candidate needs to score atleast fifty percent marks to pass

LOG BOOK(record of daily working to be kept)

1. OPD Procedures:
 - a. Tonometry
 - b. Gonioscopy
 - c. Syringing
 - d. Staining
2. Surgeries done
3. Special clinical investigations
4. Clinical case presentation
5. Symposia
6. Journal club
7. Teaching experience
8. Meetings / conference attended
9. Papers presented / published

OPERATIONS FOR D.O(OPHTHAL) CANDIDATES

At the end of D.O. candidate should have following surgical skills-

1. Lens – ECCE & SICS, to assist in phacoemulsification.
2. Lids- Entropion , Ectropion, Chalazion, Tarsorrhaphy
3. Sac- DCT
4. Cornea- Carbolization, Pterygium surgery
5. Glaucoma- YAG laser Iridotomy
6. Orbit and Globe- Enucleation
7. Injuries- repair of wounds



**MGM UNIVERSITY OF HEALTH SCIENCES,
NAVI MUMBAI**

MARK LIST FOR PRACTICAL AND VIVA-VOCE EXAMINATION

Exam Centre: _____

Date of Examination: _____

EXAMINATION FOR: DIPLOMA IN OPHTHALMOLOGY

Sr. No	Heads	Total Marks
1	Osci	50
2	Demonstrations	50
3	Clinical cases	100
4	Viva	100
	Total	300

Seat No	1	2	3	4	Grand Total
	50 Marks	50 Marks	100 Marks	100 Marks	300 Marks

NAME OF EXAMINER	COLLEGE	SIGNATURE WITH DATE
1.		
2.		
3.		
4.		

PG COURSES: - DIPLOMA

Sr. No.	Course	Subject Name		Paper No. & Topics
i)	D.C.H.	DIPLOMA PAEDIATRIC	IN	<p>I. Basic medical as applied to paediatrics.</p> <p>II. Neonatology, social and preventive Paediatric.</p> <p>III. Systemic disease in Paediatrics Respiratory cardiology, CVS, Neurology, Haematology, Nephrology, Rheumatology, Immunology, Gastroenterology, growth and development. Congenital & acquired disorder of Eye care, Nose, Throat and joints, Endocrine system and miscellaneous diseases.</p>
ii)	D.A.	DIPLOMA IN ANAESTHESIOLOGY		<p>I. Basic Sciences as related to Anaesthesia (History, Anatomy, Physiology, Pharmacology, Pathology, Physics, Instrument & Equipments, etc.)</p> <p>II. Theory & Practice of Anaesthesia</p> <p>III. Clinical Sciences like Medicine & Surgery related to Anaesthesia</p>
iii)	D.G.O.	DIPLOMA IN OBST. & GYNAECOLOGY		<p>I. Obstetrics including the diseases of newborn.</p> <p>II. Gynaecology, Gynaecological Pathology & Operative Gynaecology.</p> <p>III. Medical and surgical diseases complicating obstetrics & Gynaecology, social obstetrics & Gynaecology including M.CH. & F. W.</p>
iv)	D. ORTHO	DIPLOMA ORTHOAEDICS	IN	<p>I. Anatomy, Physiology and Pathology as applicable to Orthopaedics.</p> <p>II. Traumatology and general Surgery.</p> <p>III. General Orthopaedics</p>
v)	D.O.	DIPLOMA OPHTHALMOLOGY	IN	<p>I. Anatomy, Physiology and Optics.</p> <p>II. Ophthalmic Medicine and surgery.</p> <p>III. Ophthalmology related to systemic diseases and new innovations and techniques in Ophthalmology.</p>

IN PURSUIT OF EXCELLENCE

MGM DEEMED UNIVERSITY OF HEALTH SCIENCES

Constituent Colleges

Navi Mumbai



M.G.M. Medical College
M.G.M 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 Jawaharlal Nehru Engineering College
- 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. Patilkar College of Comp. Sc. & Tech.
- MGM's Hospital & Research Center
- MGM's College of Agricultural Bio-Technology
- MGM's Dept. of Bio-Technology & Bio-informatics.
- 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-Primary - 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 & Secondary 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

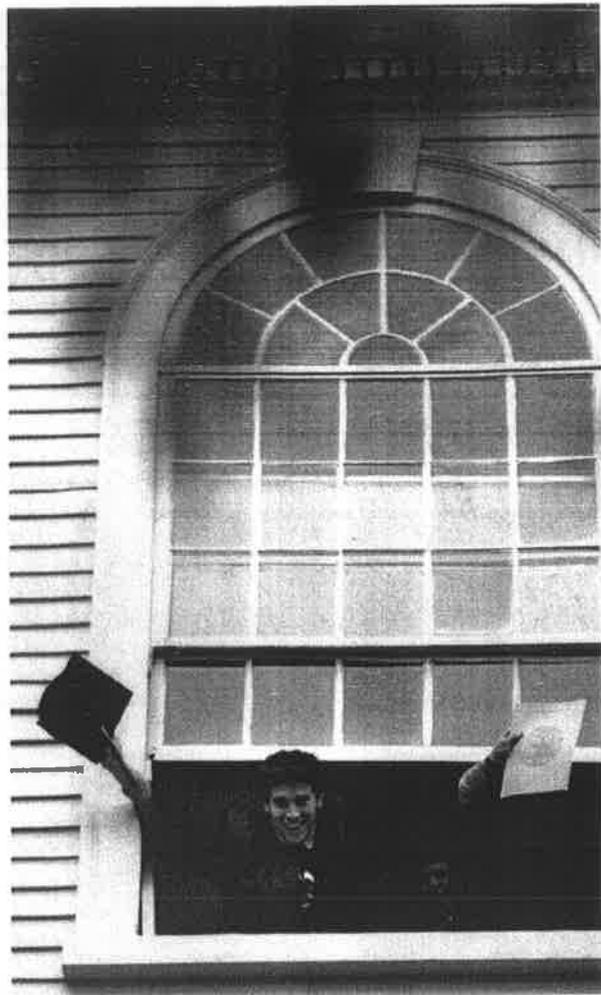
- MGM's College of Engineering
- MGM's College of Fine Arts
- MGM's College of Computer Science
- MGM's College of Journalism & Media Science
- MGM's Centre for Astronomy & Space Tech.
- MGM's College of Library & Information Science

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...



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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

All PG.
& 30 copies

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



MGM INSTITUTE OF HEALTH SCIENCES
Navi Mumbai

Induction Program for newly admitted Postgraduate students

Day 1	<ul style="list-style-type: none"> • Address by Dean, Medical Suptd, Director (Academics) • Pre-test • Communication Skills • Universal Safety Precautions • Biomedical Waste Management • Infection Control Policy
Day 2	<ul style="list-style-type: none"> • Emergency services • Laboratory services • Blood Bank services • Medicolegal issues • Prescription writing • Adverse Drug Reaction • Handling surgical specimens
Day 3	<ul style="list-style-type: none"> • Principles of Ethics • Professionalism • Research Ethics • Informed Consent • Confidentiality • Doctor-Patient relationship
Day 4	<ul style="list-style-type: none"> • Research Methodology
Day 5	<ul style="list-style-type: none"> • Synopsis writing
Day 6	<ul style="list-style-type: none"> • Dissertation writing • Statistics
Day 7	<ul style="list-style-type: none"> • ATLS • 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. 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.

Resolution No. 4.13 of BOM-55/2018: Resolved as follows:-

- (i) Slow learners must be re-designated as potential learners.
- (ii) Students scoring less than 35% marks in a particular subjects/course in the 1st formative exam are to be listed as potential learners. These learners must be constantly encouraged to perform better with the help of various remedial measures.
- (iii) Students scoring more than 75% marks in a particular subjects/course in the 1st formative exam are to be listed as advanced learners. These learners must be constantly encouraged to participate in various scholarly activities.



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