

## The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. (Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)

### Part – A

**AQAR for the year (for example 2013-14)**

Jan – Dec 2015

#### 1. Details of the Institution

1.1 Name of the Institution

MGM INSTITUTE OF HEALTH SCIENCES [MGMIHS]  
(Deemed University u/s 3 of UGC Act, 1956)

1.2 Address Line 1

3<sup>rd</sup> floor, MGM Educational Campus

Address Line 2

Sector -1, Kamothe

City/Town

Navi Mumbai

State

Maharashtra

Pin Code

410 209

Institution e-mail address

mgmuniversity@mgmuhs.com; registrar@mgmuhs.com

Contact Nos.

022-27437694  
9322880252

Name of the Head of the Institution:

Dr. S.N. Kadam

Tel. No. with STD Code:

022-27437603

Mobile:

9820138937

Name of the IQAC Co-ordinator:

Dr S.K Kaul

Mobile:

9167352353

IQAC e-mail address:

iqac@mgmuhs.com

**1.3 NAAC Track ID** (For ex. MHC0GN 18879)

MHUNGN11010

**OR**

**1.4 NAAC Executive Committee No. & Date:**

EC/66/A&A/082 dated 21<sup>st</sup> Feb 2014

(For Example EC/32/A&A/143 dated 3-5-2004. This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

**1.5 Website address:**

www.mgmuhs.com

Web-link of the AQAR:

<http://mgmuhs.com/Reports/AQAR2015.pdf>

For ex. <http://www.ladykeanecollege.edu.in/AQAR2012-13.doc>

### 1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 <sup>st</sup> Cycle	A	3.07	Dec 2013	5 years
2	2 <sup>nd</sup> Cycle				
3	3 <sup>rd</sup> Cycle				
4	4 <sup>th</sup> Cycle				

1.7 Date of Establishment of IQAC : DD/MM/YYYY

21/11/2013

1.8 AQAR for the year (for example 2013-14)

Jan – Dec 2015

1.8 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC (for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- Not Applicable

### 1.9 Institutional Status

University State  Central  Deemed  Private

Affiliated College Yes  No

Constituent College Yes  No

Autonomous college of UGC Yes  No

Regulatory Agency approved Institution Yes  No

(e.g. AICTE, BCI,  **MCI**, PCI, NCI)

Type of Institution Co-education  Men  Women

Urban  Rural  Tribal

Financial Status Grant-in-aid  UGC 2(f)  UGC 12B

Grant-in-aid + Self Financing  Totally Self-financing

### 1.10 Type of Faculty/Programme

Arts  Science  Commerce  Law  PEI (Phys Edu)   
TEI (Edu)  Engineering  Health Science  Management   
Others (Specify)

### 1.11 Name of the Affiliating University (for the Colleges)

Not Applicable

### 1.12 Special status conferred by Central/ State Government- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence	<input type="checkbox"/>	UGC-CPE	<input type="checkbox"/>
DST Star Scheme	<input type="checkbox"/>	UGC-CE	<input type="checkbox"/>
UGC-Special Assistance Programme	<input type="checkbox"/>	DST-FIST	<input type="checkbox"/>
UGC-Innovative PG programmes	<input type="checkbox"/>	Any other (Specify)	<input type="checkbox"/>
UGC-COP Programmes	<input type="checkbox"/>		

## 2. IQAC Composition and Activities

2.1 No. of Teachers

07

2.2 No. of Administrative/Technical staff

03

2.3 No. of students

02

<b>2.4 No. of Management representatives</b>	01
<b>2.5 No. of Alumni</b>	01
<b>2.6 No. of any other stakeholder and community representatives</b>	01
<b>2.7 No. of Employers/ Industrialists</b>	01
<b>2.8 No. of other External Experts</b>	0
<b>2.9 Total No. of members</b>	16
<b>2.10 No. of IQAC meetings held</b>	43

**2.11 No. of meetings with various stakeholders:** No.  Faculty

Non-Teaching Staff /Students  Alumni  Others

**2.12 Has IQAC received any funding from UGC during the year?** Yes  No

If yes, mention the amount

**2.13 Seminars and Conferences (only quality related)**

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.  International  National  State  Institution Level

(ii) Themes

- Review of functioning of various committees
- IQAC Sensitization Program
- International Convention On Challenges in Medical Education
- Managing stress in Health Care
- Training in basic Medical Education and Technology
- Reaching out to the community

**2.14 Significant Activities and contributions made by IQAC**

- MGMIHS IQAC and Institutional IQAC's were revised to increase the number of members from various categories to make them more representative.
- Suggestions and feedback regarding "New Education Policy" being formulated by NAAC were given by MGMIHS IQAC in 14th September 2015.
- Sensitization of all staff on all matters pertaining to quality assurance and holding regular meetings
- Centralized Database of all reports received is being regularly updated.
- Various cells for improving the quality of medical education, i.e. Attendance cell, MET cell, Research Cell, Examination Cell and Mentoring programme are being monitored regularly.
- One of the MGMIHS IQAC members was nominated for review of 4 textbooks of Community Medicine and pretesting of Gender sensitive Community Medicine Modules. The report has been submitted to Centre for Enquiry into Health and Allied Themes (CEHAT) and United Nations Population Funds (UNFPA).

## 2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year \*

Sr no	Plan of Action	Achievements
1.	Establishment of full fledged Clinical Skills Lab and Simulation Lab	Clinical Skills Lab established, Simulation Lab in progress.
2.	NABH accreditation of MGM Navi Mumbai Teaching Hospital	In progress however NABH accreditation for RGJAY is received and institution has been awarded A+ grade.
3.	Increase the capacity of existing facilities	<p>The following additional facilities have been introduced:</p> <ol style="list-style-type: none"> <li>1. <b>Biomechanics Lab (MGM Centre of Human Movement Science)</b></li> <li>2. <b>Dermatology:-</b> collaboration with plastic surgery Dept. at MGM Medical College, Navi Mumbai Dermato-plastic OPD started in</li> <li>3. <b>Biochemistry:</b> Clinical Biochemistry Laboratory for charity established. at MGM Medical College, Navi Mumbai</li> <li>4. <b>Paediatrics:</b> State of Art Paediatric Intensive Care Unit (PICU) – Planning for ICCCM accreditation at MGM Medical College, Navi Mumbai</li> <li>5. <b>Surgery:</b> Breast Clinic &amp; Diabetic Foot Clinic at MGM Medical College, Navi Mumbai</li> <li>6. <b>New Central Library</b> of 25,000 sq. ft. with latest facilities established. at MGM Medical College, Aurangabad</li> <li>7. <b>OBGY ICU</b> Established with a capacity of 05 beds. at MGM Medical College, Aurangabad</li> <li>8. <b>New Dialysis unit</b> Established. at MGM Medical College, Aurangabad</li> <li>9. <b>New Kidney Transplant Unit</b></li> </ol>

		Established. at MGM Medical College, Aurangabad.  10. Permission for establishing <b>Kidney Transplant Unit</b> at MGM Medical College, Navi Mumbai has been received.
4.	Increase in collaborations and linkages with National and International Agencies and Institutions	Collaborations and Linkages were made with a number of external research agencies for various research projects, some of which are: a. Biomechanics Lab (MGM Centre of Human Movement Science) with University of Cardiff and IIT Bombay.  b. Board of Research in Nuclear Medicine, Mumbai  c. International Society for Biomechanics  d. NanoSynth Materials & Sensors, USA  e. IKP Knowledge Park, Hyderabad  f. Shastri Indo-Canadian Institute, Calgary, Canada.  g. Department of Biotechnology, Government of India.  h. Department of Science and Technology, GOI.  i. ICMR
5.	Increase the number of courses/ programs in Medical and Allied Health Sciences	New Course MSc Molecular Biology has been introduced.
6.	Introducing new super- specialities like DM Neurology and MCh Neurosurgery	In progress
7.	Introduction of Competence Based Curriculum for undergraduate Medical Students	In this connection, several workshops for faculty have been conducted under the guidance of Prof. N.G. Patil (Faculty of Surgery, University of Hong Kong)
8.	Integrating gender in medical education.	One of the MGMIHS IQAC member was nominated for review of 4 textbooks of Community Medicine and pretesting of Gender sensitive Community Medicine Modules. The report has been submitted to CEHAT and UNFPA.
9.	To improve professional competence of institutional faculty conducting MCI recognized MET workshops	Four faculty members attended the Revised MET Workshop and AT-COM module at Regional Centre, GS Medical College & KEM Hospital, Mumbai.

**2.16 Whether the AQAR was placed in statutory body**    Yes     No

Management     Syndicate     Any other body

**Provide the details of the action taken:** The body of the report was discussed and approved by the Board of Management, and suggestions for future plans were incorporated.

## Part – B

### Criterion – I

#### I. Curricular Aspects

##### 1.1 Details about Academic Programmes:

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	32	-	32	32
PG	38	3	38	38
UG	8	-	8	8
PG Diploma	8	-	8	8
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others: DM/MCh	5	-	5	5
<b>Total</b>	91	3	91	91

Interdisciplinary	91	3	91	91
Innovative	-	-	-	-

##### 1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

##### (ii) Pattern of programmes:

Pattern	Number of programmes
Semester	12
Trimester	-
Annual	79

1.3 Feedback from stakeholders\* Alumni  Parents  Employers  Students   
*(On all aspects)*

Mode of feedback : Online  Manual  Co-operating schools (for PEI)

**1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects. –**

- B.Sc. Course in Audiometry and Speech Therapy is planned to be started with prior permission of UGC.
- Anatomy syllabus for UG revised and immunoassay technique incorporated in UG practical syllabus of Biochemistry.
- M.D. students in Pathology to have 15 days posting in Biotechnology as per MCI, 6 months of Allied postings can be given as per HOD's mutual agreement.
- Changes in the syllabus of II<sup>nd</sup> MBBS for Microbiology and changes in the existing syllabus of II<sup>nd</sup> MBBS Pathology carried out.
- Inclusion of lectures on History of Medicine made compulsory in the curriculum of all disciplines.
- Topics for Horizontal integration that have already been enlisted & implemented at Aurangabad adopted at Navi Mumbai too.

**1.5 Any new Department/Centre introduced during the year. If yes, give details.**

- Dermato-plastic OPD started in collaboration with plastic surgery Dept. at MGM Medical College, Navi Mumbai
- Biomechanics Lab (MGM Centre of Human Movement Science) in collaboration with University of Cardiff and IIT Bombay.
- A separate Clinical Biochemistry Laboratory was established at MGM Medical College, Navi Mumbai for catering to poor patients free of cost.
- State of Art PICU – Planning for ICCCM accreditation at MGM Medical College, Navi Mumbai
- Breast Clinic & Diabetic Foot Clinic at MGM Medical College, Navi Mumbai
- New Central Library of 25,000 sq.ft. with all latest facilities was established. at MGM Medical College, Aurangabad
- Obstetrics & Gynaecology ICU established with a capacity of 05 beds. at MGM Medical College, Aurangabad
- New Dialysis unit established at MGM Medical College, Aurangabad
- New Kidney Transplant Unit established at MGM Medical College, Aurangabad

## Criterion – II

### 2. Teaching, Learning and Evaluation

<b>2.1 Total No. of permanent faculty</b>	Total	Asst. Professors	Associate Professors	Professors	Others
	715	171	101	109	334

**2.2 No. of permanent faculty with Ph.D.**

12
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<b>2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year</b>	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	9	5	1	1	0	0	39	8	49	14

**2.4 No. of Guest faculty, Visiting faculty and Temporary faculty**

26	4	0
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#### 2.5 Faculty participation in conferences and symposia:

No. of Faculty	International level	National level	State level
Attended	478	484	830
Presented papers	52	110	75
Resource Persons	57	65	119

#### 2.6 Innovative processes adopted by the institution in Teaching and Learning:

- Horizontal and vertical teaching methods, Tutorial sessions in theory and practicals, UG and PG Seminars, Journal Clubs, Microteaching, Small group teaching, PBL and Integrated Teaching methods are in use.
- Slow-learner remedial lectures are being held.
- Audiovisual aids: laptops, LCD projectors are in use.
- Advanced Skill Lab and mannequins are used to teach various procedures and techniques in Emergency Medicine and clinical skills.

**2.7 Total No. of actual teaching days during this academic year:**

240
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**2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)**

- OSCE for Internal Assessment
- Monthly theory tests, MCQ tests twice a month
- Bar Coding and Double Valuation, Multiple Choice Questions, Internal Assessment.
- Examination software is proposed to be implemented.
- Supplementary Examination for B.Sc. Allied Health Science courses being held 6 months after the annual examination.
- University Examination for B.Sc. Allied Health Sciences being conducted twice a year i.e. annual examination every July and supplementary examination every January.
- SOP on moderation in all examinations conducted by MGMIHS framed and is being implemented.

**2.9 No. of faculty members involved in curriculum restructuring/ revision/syllabus development as members of Board of Study/ Faculty/ Curriculum Development Workshop:**

BOS=128	AC=62	BOM=14
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**2.10 Average percentage of attendance of students:**

82.5%
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**2.11 Course/Programme wise distribution of pass percentage:**

Date	Title of the Programme	Total no. of students appeared	Division				
			Distinction %	I %	II %	III %	Pass %
Jan 15	Second MBBS	265	0.75	-	-	-	79.25
Jan 15	Third MBBS (Part - I)	271	0.37	-	-	-	85.24
Jan 15	Third MBBS (Part - II)	192	0	-	-	-	85.24
Mar 15	Third MBBS (Part - II)	38	0	-	-	-	76.32

Mar 15	Second MBBS	62	0	-	-	-	66.13
Jul 15	Third MBBS (Part - I)	49	0	-	-	-	83.67
Aug 15	First MBBS	325	3.07	-	-	-	74.77
Apr 15	MD/MS Courses	114	0	-	-	-	84
Apr 15	Diploma Courses	16	0	-	-	-	75
Dec 15	MD/MS Courses	27	0	-	-	-	93
Aug 15	D.M. Cardiology	1	0	-	-	-	100
Dec 15	M.Ch. Cardio Thoracic And Vascular Surgery	1	0	-	-	-	100
Nov 15	Ph.D Anatomy	1	0	-	-	-	100

## 2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

- Students with low academic profile are mentored by the batch teachers as well as senior faculty.
- Students with low attendance and test results reported to the Dean's office for transferring the information to the respective parents.
- Continuous monitoring of student activities by the senior faculty leading to improved student outcome and attendance.
- Mentorship program, identifying slow learners and conducting remedial classes. Identifying advanced learners and encouraging them to participate in various competitive programs like quiz, poster presentations.
- New innovative strategies are being implemented at the departmental level to make lectures more interesting like small tutorials for Slow Learners Every Week
- MGM Medical College, Aurangabad has started a new monthly Self Appraisal System for Teaching Faculty. Regular Feedback from student regarding Teaching, Teachers Syllabus is taken. Regular meetings are held with the stake holders. Regular analysis and corrective measures are undertaken.

### 2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	60
UGC – Faculty Improvement Programme	0
HRD programmes	0
Orientation programmes	105
Faculty exchange programme	45
Staff training conducted by the university	71
Staff training conducted by other institutions	115
Summer / Winter schools, Workshops, etc.	1
Others	20

### 2.14 Details of Administrative and Technical staff

Category	No of Permanent Employees	No of Vacant Positions	No of permanent positions filled during the Year	No of positions filled temporarily
Administrative Staff	118	10	13	0
Technical Staff	212	2	7	0

## Criterion – III

### 3. Research, Consultancy and Extension

#### 3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- IQAC invites distinguished guests from other institutions to chair and address research programs and activities.
- Scientific Advisory Committee has been reconstituted to help in the conceptualization and monitoring of research programs.
- Ethics Committee for research on human subjects is approved by Drugs Controller General (India) to facilitate research projects.
- Animal Ethics Committee has been established to facilitate research projects.
- Research Methodology workshops organized for teaching staff.
- A publication fee is provided by the institution.

#### 3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	-	9	3	5
Outlay (Rs.)	-	93,76,750	15,00,000	25,00,000

#### 3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	112	294	195	61
Outlay (Rs.)	*	38,00,000	38,00,000	12,00,000

\*In addition an amount of up-to Rs 25,000 is allowed for each student to conduct lab tests, imaging, and other required diagnostics free of cost if they are needed for preparation of thesis.

#### 3.4 Details on research publications

	International	National	Others
Peer Reviewed Journals	166	77	135
Non-Peer Reviewed Journals	0	0	0
e-Journals	0	0	0
Conference proceedings	0	0	0

#### 3.5 Details on Impact factor of publications:

Range  Average  h-index  Nos. in SCOPUS

### 3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Year	Name of the funding Agency	Total grant Sanctioned (in Rs)	Received (in Rs)
Major projects	2014	BRNS	22,55,100	16,75,400
	2014	BRNS	24,98,900	12,73,350
	2014	ICMR	16,77,000	9,34,000
	2015	IKP Knowledge Park, Hyderabad	49,90,000	29,94,000
	2015	MGMMCA	25,00,000	12,00,000
Minor projects	2015-16	MGMMCA	38,00,000	25,00,000
Interdisciplinary Projects	2015-16	MGMHIS	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	2015-16	MGMMCA	63,00,000	37,00,000
Students research projects (other than compulsory by the University)	2015-16	MGMMCA	75,000	75,000
	2015-16	ICMR (STS project)	90,000	90,000
Any other(Specify)	-	-		

3.7 No. of books published i) With ISBN No.  Chapters in Edited Books

ii) Without ISBN No.

### 3.8 No. of University Departments receiving funds from :

UGC-SAP  CAS  DST-FIST   
DPE  DBT Scheme/funds

### 3.9 For colleges:

Autonomy  CPE  DBT Star Scheme   
INSPIRE  CE  Any Other (specify)

3.10 Revenue generated through consultancy:

### 3.11 No. of conferences organized by the Institution

Level	International	National	State	University	College
Number	2	4	6	5	14
Sponsoring agencies	-	-	-	-	-

**3.12 No. of faculty served as experts, chairpersons or resource persons : 109**

**3.13 No. of collaborations** International  National  Any other

**3.14 No. of linkages created during this year**

**3.15 Total budget for research for current year:**

**From Funding agency**

**From Management of University/College**

**Total:**

**3.16 No. of patents received this year**

Type of Patent		Number
National	Applied	4
	Granted	4
International	Applied	-
	Granted	-
Commercialised	Applied	-
	Granted	-

**3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year**

Total	International	National	State	University	Dist	College
6	1	5	-	-	-	-

**3.18 No. of faculty from the Institution**

**Who are Ph. D. Guides**

**and students registered under them**

**3.19 No. of PhD. awarded by faculty from the Institution**

**3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)**

JRF  SRF  Project Fellows  Any other

**3.21 No. of students Participated in NSS events:**

University level  State level   
National level  International level

**3.22 No. of students participated in NCC events:**

University level  State level   
National level  International level

**3.23 No. of Awards won in NSS:**

University level  State level   
National level  International level

**3.24 No. of Awards won in NCC:**

University level  State level   
National level  International level

**3.25 No. of Extension activities organized :**

University forum  College forum   
NCC  NSS  Any other

**3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility:**

**1. National Youth Day celebration January 2015**

Health awareness programme at MGM School, Nerul for school children 9<sup>th</sup> and 10<sup>th</sup> standard on HIV infection and prevention, Substance abuse, Life Style Diseases and its Prevention.

**2. World Cancer Day celebration February 2015**

Health Exhibition, Role play by Interns, Health Talk on Early Detection and Treatment of cancer.

**3. World Tuberculosis Day celebration March 2015**

Health talk on tuberculosis and its treatment.

**4. WHO Day celebration April 2015**

Panel Discussion on WHO theme from “FARM TO PLATE MAKE FOOD SAFE”. The officials from food and drug authority attended the programme.

**5. World Population Day celebration July 2015**

Brain storming session was organized to highlight the issues of population problems in MGM School, Nerul among the 10<sup>th</sup> class students.

**6. Outreach activities**

**a. Road Safety week**

Health check up for Auto Rockshaw drivers at Vashi on 12.01.2015.

**b. Blood Donation camp**

At A. C Patil College of Engineering, Sec-4, Kharghar on 14.02.2015

**c. Medical Health check up camp**

At Mauli CHS, Ghansoli, Navi Mumbai on 08.03.2015.

**d. Medical Health check up camp for senior citizens and children**

At (Shree Chitragupt samaj) Prageti CHS premises, Sector-15, Kharghar on 29.03.2015.

**e. Regular outreach immunization in the community every 2<sup>nd</sup> and 3<sup>rd</sup> Tuesday.**

**7. IEC activities conducted routinely.**

8. Medical Camp under NRHM was jointly organized by Dept. Of Community Medicine along with Rural Hospital, Kashale, District Raigad.
9. On occasion of ‘World Diabetes Day’, Department of Community Medicine conducted an interactive health education session for Diabetes patients with the help of Medicine, Surgery & Ophthalmology department.
10. On occasion of World AIDS Day, an interactive health education session was organized for OPD patients with the help of nursing students.
11. IEC Activity was organised on the occasion of International day for older persons on at Ramabai Colony. The theme was “Senior Citizens-We care for you.”
12. To mark the occasion of “World Sight Day” IEC Activity was organized at Sambhaji Nagar Colony, Belapur.
13. Month of October is observed as “Breast Cancer Awareness” month.

14. As a part of newborn care awareness initiative, the staff of MGM Belapur and Dept. of Community Medicine organized IEC Activity on Neonatal Jaundice at Punjab Bhavan, Belapur.
15. On the occasion of World Pneumonia day, Dept. of Community Medicine organised IEC Activity in slums of Ramabai and Sambhaji Nagar Colony.
16. In collaboration with Rotary Club, Navi Mumbai, UHTC organized Lung health check up camp at Shivajinagar School premises, Nerul.
17. IEC Activities to celebrate 'International day of persons with Disabilities' was conducted at Ramabai colony. Slum dwellers attended this activity.
18. IEC activities to raise awareness about health problems due to pollution as well as preventive measures for the same was held at Durgamata Nagar.
19. IEC activity on Prevention and Treatment of Malaria and Dengue was conducted at Ramabai Nagar and Shambhaji Nagar colonies.
20. IEC activity on Prevention and Treatment of Malaria and Dengue was conducted at Durgamata Nagar. Free Health Check up camps.
21. Celebrations of various International days like World AIDS day and conduction of IEC activities and screening activities.
22. Health awareness drives at MGM Medical College, Aurangabad like lectures, street plays, drama -35 like lectures, street plays, Drama etc
23. Number of Adolescent health programme at MGM Medical College, Aurangabad - 24
24. "Sakshma" for women's programme at MGM Medical College, Aurangabad -10
25. Blood donation camps at MGM Medical College, Aurangabad -60
26. Free Health check up camps by MGM Medical College Aurangabad-25 (10315 patients)

## Criterion – IV

### 4. Infrastructure and Learning Resources

#### 4.1 Details of increase in infrastructure facilities:

Facilities	Existing	Newly created	Source of Fund	Total
Campus area	Navi Mumbai Land:28 acres Aurangabad Land:47.6 MGM College, Kamothe:17260 sq mt MGM Hospital Kamothe: 39139 sq mt MGM Hospital Kalamboli: 3970 sq mt Sanpada (Biomechanics Lab): 200sq.mt.	Nil	MGMIHS	Same as in column 1
Class rooms	13	Nil	MGMIHS	13
Laboratories	27	1	MGMIHS	28
Seminar Halls	52	4	MGMIHS	56
No. of important equipments purchased ( $\geq$ 1-0 lakh) during the year 2015	354	58 (total)	MGMIHS	412
Value of the equipments purchased during the year 2015(Rs.)	-	5,74,98,388	MGMIHS	Rs 5,74,98,388 worth new equipment added to pre-existing one
Others – Demo halls	16	0	MGMIHS	16

#### 4.2 Computerization of administration and library

- Computerization of the University administration and linking it with the Institutions has been approved and is under process
- The computer facility is extended to all Faculties and Students for academic and co-curricular activities, community outreach, collaborative, administrative and financial evaluation activities.

- Each department/unit is provided with necessary number of computers and peripherals including printers, scanners etc. with current configuration.
- Biometric devices and software are used for recording of attendance and later passed onto Tally Software for calculation of payrolls
- HMS (Hospital management System) is used for patient admissions till discharge. Hospitals also have LIMS (Lab Information Management System) used for lab activities.
- A separate PACS system i.e. Picture Archiving and Communication System, is used for on-the-spot transmission of images from Radiology Dept to wards and consultants.
- Library has a dedicated LIB SYS software for Library management.
- Online journals and periodicals are available.
- Computer facilities are provided for supporting Common Entrance Test, admissions and maintaining students' information.
- Most of the departments are connected through LAN, WAN and Wi-Fi. IT department provides training to students and staff in use of computers.
- There are more than 610 terminals and 225 computer peripherals with servers.
- Laser delivery module as learning material, educational CDs and DVDs are made available.
- The University has installed high-end digital camera with video shooting facility, voice and picture mixing software and animation facilities at multimedia centre.
- 1 GB National Knowledge Network (NKN) Broadband line is installed and functional.
- Central Computer Centre provides excellent academic computing facilities to the faculties and Students.
- All desktops are connected in wired LAN with \*P4 and above configurations.
- Computer interfaced LCD projectors are provided to the Faculty and Students for computer-aided teaching/learning and for presentations of research papers in conferences/symposia/ workshops.
- Online Journals, CDs and data bases are used by Teachers and Post graduate Students to enhance their knowledge.
- Various CD-ROMS are available to aid the preparation of teaching material.
- Computer aided presentation of lessons by CCE, A.P., and APSCHE are provided.

### 4.3 Library services:

Availability of Various Documents at Central Medical Library	Existing (Till 2014)		Newly Added (Jan-Dec 2015)		Total	
	Quantity	Value (In Rs.)	Quantity	Value (In Rs.)	Quantity	Value (In Rs.)
Textbooks	19864	21985041.00	1053	1350581.00	20917	23335622.00
Reference Books	2894	5284708.00	312	1325317.00	3206	6610025.00
e-Books	797	-	298	-	1095	-
Journals(International & National) *	9063	2104746367.00	327	14535129.00	9390	2119281496.00
e-Journals	976	-	488	-	1464	-
<i>Digital Database</i>						
Website of Central Medical Library	1	Open Access	1	Open Access	1	Open Access
MEDLINE Complete	7931	668000.00	7931	735076.00	15862	1403076.00
Access Medicine (E-Books)	1	575000.00	-	-	1	575000.00
MUHS Digital Library	1	Open Access	1	Open Access	1	Open Access
WHOLIS	1	Open Access	1	Open Access	1	Open Access
Free Medical Journals	1	Open Access	1	Open Access	1	Open Access
HINARI	1	Open Access	1	Open Access	1	Open Access
PubMed	1	Open Access	1	Open Access	1	Open Access

Cochrane library	1	Open Access	1	Open Access	1	Open Access
DOAJ: Directory of Open Access Journals	1	Open Access	1	Open Access	1	Open Access
DOCLINE	1	Open Access	1	Open Access	1	Open Access
Electronic Journals Library	1	Open Access	1	Open Access	1	Open Access
Wiley Online Library	1	Open Access	1	Open Access	1	Open Access
HINARI Research in Health	1	Open Access	1	Open Access	1	Open Access
Glossary of HIV/AIDS Related Terms	1	Open Access	1	Open Access	1	Open Access
Free Books for 4Doctors	1	Open Access	1	Open Access	1	Open Access
WHO Global Subscription	1	Open Access	1	Open Access	1	Open Access
CDs & Videos	1072	-	67	-	1139	-
Thesis	508	-	15	-	523	-

#### 4.4 Technology up-gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Depts	Others
Existing	707	89	1GB NKN	39	1	83	82	0
Added	72	56	-	6	0	10	16	8
Total	779	145	1GB NKN	45	1	93	98	0

#### 4.5 Computer, Internet access, training to teachers and students and any other programme for technology up-gradation (Networking, e-Governance etc.)

- The computer facility is extended to all Faculties and Students for academic and co-curricular activities, community outreach, collaborative, administrative and financial evaluation activities.

- Each department/unit is provided with necessary number of computers and peripherals including printers, scanners etc. with current configuration. The computer facilities are also provided for supporting common entrance test, admissions, maintaining Students information, hospital services, investigative operations, computer interfaced LCD usage with supporting multimedia, power point presentation etc.
- Most of the departments are connected through LAN, WAN and Wi-Fi.
- Full fledged computer department is provided for training and maintenance of ICT facilities.
- Laser delivery module as learning material, educational CDs and DVDs are made available. The University has also provided with high end digital camera with video shooting facility, voice and picture mixing software and animation facilities at multimedia centre.
- 1GB National Knowledge Network (NKN) Broadband line is installed in the University.

#### 4.6 Amount spent on maintenance:

i) ICT	16.04 lakhs
ii) Campus Infrastructure and facilities	108.01 lakhs
iii) Equipments	151.31 lakhs
iv) Others	94.36 lakhs
<b>Total :</b>	<b>369.74 lakhs</b>

## Criterion – V

### 5. Student Support and Progression

#### 5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Members of Institutional IQAC interact with students frequently to know about their problems and progress. 2 undergraduate students are members of MGMIHS University Level IQAC and provide input as required. It is ensured that students are aware of facilities created for their support such as Book Banks, freeships, free medical facilities, mentorship programs, grievance redressal, redressal of sexual harassment and ragging complaints, slow learner programs, counselling services for behavioural issues and stress reduction/ de-stressing programs. IQAC directly interacts with the Dean and students welfare bodies and brings to their notice any problems faced by students. A feedback is taken from them to ensure that the problem is resolved, through the institutional IQAC. The Central IQAC monitors the performance of the institutional IQAC regarding enhancing the awareness of student support services.

#### 5.2 Efforts made by the institution for tracking the progression

- Regular meetings of concerned committees as given in Para 5.1
- Mentor system
- Redressal system
- Evaluation of attendance and result

#### 5.3 (a) Total Number of students:

UG	PG	Ph D.	Others
2187	516	137	-

#### (b) No. of students outside the state:

749
-----

#### (c) No. of international students:

23
----

Men :

No	%
1280	45.1

Women

No	%
1560	54.9

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
774	5	-	6	0	785	457	19	4	85	-	565

Demand ratio

1968:4505

Dropout %

Nil

**5.4 Details of student support mechanism for coaching for competitive examinations (if any):**

- Special orientation and guidance lectures are arranged for interns to prepare for entrance examinations for post graduate courses.
- The university/constituent colleges invite experts from higher learning institutions/corporate/business houses periodically to interact with students.

- No. of students beneficiaries: 112

**5.5 No. of students qualified in these examinations:**

NET - SET/SLET GATE - CAT -  
IAS/IPS - State PSC UPSC - Others -

**5.6 Details of student counselling:**

- The Counselling Cell takes care of skill development and career guidance.
- Motivational lectures and orientation programmes are arranged for students.

- No. of students benefitted: 116

**5.7 Details of campus placement:**

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
-	-	-	-

**5.8 Details of gender sensitization programmes:**

- Pre-testing of gender modules & questionnaires by CEHAT at dept of community Medicine, MGM Medical College, Navi Mumbai.
- Selection of one of the members of MGMIHS as consultant for review of 4 textbook of PSM from gender perspective by CEHAT and UNFPA.

- Gender audit is done annually wherein enrolment data is documented and analyzed. Gender Ratio statistics for students and teachers is collected from each college by the university.
- Street play by VIth semester MBBS students at various places in Aurangabad city

### 5.9 Students Activities:

- Annual Social Gathering
- AIIMS PULSE programme New Delhi
- UG Students of MGM Medical College Aurangabad participated in cultural events during conference held at Smt. Kashibai Nawale Medical College and hospital, Pune
- MGM trust Foundation day
- MGM Medical College Navi Mumbai undergraduate student was a finalist at Elsevier Basic Sciences Olympiad 2014-2015
- 68 undergraduate medical students of MGM Medical College Navi Mumbai attended a compendium on Medical Education held at Terna Medical College Navi Mumbai.

#### 5.9.1 No. of students participated in Sports, Games and other events:

State/ University level  National level  International level

#### No. of students participated in cultural events:

State/ University level  National level  International level

#### 5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level:  National level:  International level:   
 Cultural: State/ University level:  National level:  International level:

### 5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	404	125,34,250
Financial support from government	-	-
Financial support from other sources	-	-
Number of students who received International/ National recognitions	1	-

### 5.11 Student organised initiatives

Fairs : State/ University level:  National level:  International level:   
Exhibitions: State/ University level:  National level:  International level:

5.12 No. of social initiatives undertaken by the students:

5.13 Major grievances of students (if any) redressed: NIL

## **Criterion – VI**

### **6. Governance, Leadership and Management**

#### **6.1 State the Vision and Mission of the institution**

- **Vision:**

By the year 2020, MGM Institute of Health Sciences aims to be a top-ranking Centre of Excellence in Medical Education and Research. Students graduating from the Institute will have all the required skills to deliver quality health care to all sections of the society with compassion and benevolence, without prejudice or discrimination, at affordable cost. As a Research Centre, it shall focus on finding better, safer and cheaper ways of diagnosing, treating and preventing disease. In doing so, it will maintain highest ethical standard.

- **Mission :**

To improve quality of life, both at individual and community levels by imparting quality medical education to tomorrow's doctors and medical scientists and by advancing knowledge in all fields of health sciences through meaningful and ethical research.

#### **6.2 Does the Institution has a management Information System**

Yes, Management Information System (MIS) is in place. In addition, both hospitals have functioning Hospital Information Systems (HIS), Lab Information Management System (LIMS) and Picture Archiving and Communication System (PACS). The Central Library has a dedicated Library Management Software (LIB SYS) installed.

#### **6.3 Quality improvement strategies adopted by the institution for each of the following:**

##### **6.3.1 Curriculum Development**

In the preceding year, Boards of Study met 5 times. Their proposals, recommendations and suggestions about revising, amending and developing curricula of various courses were submitted to the Academic Council which met 3 times in 2015. The latter forwarded approved recommendations to Board of Management. Board of Management, after deliberations on these recommendations, approved them and passed orders for their immediate implementation. Some of the major proposals in curricular development implemented in the preceding year are:

- B.Sc. Course in Audiometry and Speech Therapy is planned to be started with prior permission of UGC.
- Anatomy syllabus for UG revised and immunoassay technique incorporated in UG practical syllabus of Biochemistry.
- M.D. students in Pathology to have 15 days posting in Biotechnology as per MCI, 6 months of Allied postings can be given as per HOD's mutual agreement.
- Changes in the syllabus of II<sup>nd</sup> MBBS for Microbiology and changes in the existing syllabus of II<sup>nd</sup> MBBS Pathology carried out.

- Inclusion of lectures on History of Medicine made compulsory in the curriculum of all disciplines.
- Topics for Horizontal integration that have already been enlisted & implemented at Aurangabad adopted at Navi Mumbai too.
- Topics for Horizontal integration that have already been enlisted & implemented at Aurangabad be adopted at Navi Mumbai too.

### 6.3.2 Teaching and Learning

- Academic calendars of all courses were made well in advance and handed over to students on admission.
- 23 teachers underwent training in updating teaching skills by Medical Education Unit.
- Students' feedback about teachers was obtained on a regular basis. There was one negative feedback about a teacher in Allied Health Sciences. This was immediately attended to.
- 9 undergraduate students (Navi Mumbai) were awarded ICMR approved research projects in 2015.
- Horizontal and vertical integration in teaching methodologies in clinical subjects was implemented more rigorously and it has started paying dividends in terms of improved learning skills of students.

### 6.3.3 Examination and Evaluation

- Existing examination and evaluation processes of the University are strictly monitored by designated competent authorities. No incidence of breach in confidentiality of setting up of question papers, selection of examiners, coding of answer sheets, Central Assessment Process (CAP) occurred during the last year.etc.
- All results are usually declared within 7 days of completion of examination.
- Three cases of using unfair means during examinations were reported. These were promptly investigated by designated enquiry committees and appropriate action taken.
- Matters related to examination and evaluation processes are discussed regularly in Academic Council, Board of Examinations, and Board of Management meetings.

### 6.3.4 Research and Development

a. Research papers published in 2015 (2014 figures in brackets):

- International journals: 166 (144)
- National journals: 77 (78)
- Others: 135 (11)

b. Major Research projects in 2015 (2014 figures in brackets):

- Completed : 0 (1)
- New projects started : 5 (6)
- Ongoing projects : 7 (17)

c. Conferences organized by university/constituent units in 2015 (2014 figures in brackets):

- National: 4 (3)
- International: 2 (3)
- Others: 25 (26)

d. PhD programmes in 2015 (2014 figures in brackets):

- PhD degrees awarded: 5 (9)
- New scholars admitted: 14 (30)
- Total number of PhD scholars : 137 (118)

e. New research labs established in 2015:

- A state-of-the-art Biomechanics Laboratory named “MGM Centre of Human Movement Science” was inaugurated on 5<sup>th</sup> October 2015. It was set up at a total cost of over Rs 2 crores. It was funded by International Society of Biomechanics, Bioengineering & Technology Incubation Centre of IIT Bombay and MGMIHS. This laboratory will carry out research, clinical service and training in Clinical Biomechanics.
- Existing research labs (Proteomics Lab, Stem Cell Research Lab, Medical nanotechnology & Molecular Biology Lab, MGM Central Research Lab, Genetic research Lab, MGMIHS OMICS Research Centre, Biotechnology research lab, Aurangabad and Sleep Medicine lab carried out their research work at optimum levels. No complaints were received by IQAC regarding funding constraints.
- MGMIHS OMICS Research Centre filed 4 Indian patents in 2015. These are
  - Preparation comprising a pancreatic lipase inhibitory fraction, an anti-obesity principle obtained from the dietary spice Mesua ferrea.
  - Method for the synthesis of bifunctional Cerium oxide nanoparticle with enhanced antioxidant and carbonic anhydrase inhibitory activity.
  - Biogenic method for generation of monodisperse and fluorescent Cerium oxide nanoparticles with enhanced antioxidant activity.
  - Biogenic method for generation of multiple nanoparticles (Zn, Fe, Mg, Ca, Ce, Si, Ag)

### **6.3.5 Library, ICT and physical infrastructure / instrumentation**

- Digitisation of library completed.
- 1053 textbooks, 312 reference books, 298 e-books, 327 journals, 488 e-journals, 7946 database, 67 CDs and videos, and 15 theses were added during 2015.
- 72 computers were added.
- A connecting bridge between the main MGMIHS building and the hospital was constructed.

- A new entrance gate at MGMIHS campus is nearing completion.
- New equipment worth Rs 5,74,98,388 was procured by the University.

### **6.3.6 Human Resource Management**

- Complete digitalization of HR department was achieved in both campuses.
- 24 faculty members were trained by MEU Cell and 4 underwent Revised MET workshop and AT-COM module at Seth GS Medical College and KEM hospital, Regional Centre.
- A comprehensive performance appraisal form for all teaching and non teaching staff was designed and put into use.

### **6.3.7 Faculty and Staff recruitment**

- 45 new faculties and 20 new non teaching staff were recruited in 2015. All vacancies were advertised in news papers. Complete transparency and strict compliance to rules of university was observed in the recruitment process.

### **6.3.8 Industry Interaction / Collaboration**

4 International and 5 National collaborations and linkages were made in 2015 mostly for conducting research projects in community-oriented issues, especially tuberculosis, obesity, diabetes, movement sciences and diarrhoeal diseases of children.

### **6.3.9 Admission of Students**

Admission to all courses was done strictly as per rules and regulations of MGMIHS. All students appeared in respective common entrance tests conducted at various centres. An Admission Committee was designated by the university to conduct and monitor the admission process.

### **6.4 Welfare schemes for Teaching, Non-teaching staff and students**

- Teaching and non teaching staffs are provided subsidized/ free health care
- Creche facility for children of employees is provided
- The art of destressing through meditation was introduced to students and employees by lecture-demonstrations conducted by a reputed organization of Mumbai, “Heartfulness”. It is gaining popularity.
- All statutory regulations for employees like maternity leaves, contributory provident fund and gratuity are strictly followed.

- Prevention of Sexual Harassment Committees are in place both in University and in its constituent colleges to look into any complaints at workplaces and take appropriate action. No incidence of sexual harassment was reported in 2015.

**Students:**

Free-ships and scholarships amounting to Rs. 125,34,250 were awarded to 404 deserving students in 2015.

Students Welfare Cell, Student Council Advisory Committees, Anti Ragging Committees and Grievance Redressal Cells are in place in all constituent colleges. No case of ragging incident was reported in 2015.

Sports Complex, Gymnasium, Swimming pool (at Aurangabad), Canteen facilities and reading rooms are available to students.

**6.5 Total corpus fund generated\*:**

115,100,000
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\* As per the audited balance sheet of MGMIHS as of 31<sup>st</sup> March 2015.

**6.6 Whether annual financial audit has been done ?** Yes

No

**6.7 Whether Academic and Administrative Audit (AAA) has been done?**

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	MCI & BAMU	Yes	By other constituent colleges of MGMIHS
Administrative	Yes	MCI	Yes	By other constituent colleges of MGMIHS

**6.8 Does the University/ Autonomous College declares results within 30 days?**

For UG Programmes Yes  No

For PG Programmes Yes  No

## **6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?**

- OSCE for Internal Assessment
- Monthly theory tests, MCQ tests twice a month
- Bar Coding and Double Valuation, Multiple Choice Questions, Internal Assessment.
- Examination software is proposed to be implemented.
- Supplementary Examination for B.Sc. Allied Health Science courses to be held 6 months after the annual examination.
- University Examination for B.Sc. Allied Health Sciences to be conducted twice in a year i.e. annual examination every July and supplementary examination every January.
- To streamline the process of moderation in all examinations, a new SOP has been framed and is being implemented.

## **6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?**

- Both constituent colleges of MGMIHS have full autonomy in their roles as teaching institutions. University conducts admissions and examinations, frames policies and rules and provides full financial support to in colleges. Rules and policies are framed after full deliberations by empowered committees. Most of the members of these committees are drawn from the colleges, including the Board of Management committee. Therefore, even in framing rules and policies, the constituent colleges have a major say. If a particular rule or policy is found to be inadequate in some respect it can always be amended subsequently. Within these frameworks of rules, regulations and policies, both colleges enjoy complete autonomy in curriculum development, teaching-learning skills & research activities, which are the hallmarks of a teaching institution. University helps them with additional financial grants as and when they ask, for infrastructural development, buying new equipments, setting up new laboratories and other research facilities. University also helps them in developing new collaborations and linkages with outside agencies, both national and international, for student and faculty exchange programmes and research projects. If at any time, a college is found to be under-performing in some area, university authorities bring it to their notice and help it to rectify the issue. This is an essential supervisory role that the university has to perform as a part of its responsibility.

## **6.11 Activities and support from the Alumni Association**

- The Alumni Association has been registered with the Charity Commissioner of the district Raigad. An office has been handed over in Navi Mumbai campus.
- The members of Alumni association have regular meetings in the designated room in the University building.
- Career guidance lectures and health camps are arranged by the Alumni Association.
- Donation of books and hearing aids.

- The association intends to increase the membership by use of social media.

### **6.12 Activities and support from the Parent – Teacher Association**

- 07 parent-teacher meetings were held in 2015.
- Feedback form parents was analysed and required corrective measures taken.
- Many local parents offered active assistance in social and community activities of the colleges, which was gratefully availed.

### **6.13 Development programmes for support staff**

- 06 members who had enrolled earlier completed Diploma in management in 2015.
- Spiritual development is offered to all interested staff members by way of Vipassana Sahaj yoga and ‘Heartfulness’ meditation

### **6.14 Initiatives taken by the institution to make the campus eco-friendly**

- 500 trees were planted in the Navi Mumbai campus in 2015.
- It is heartening to note that 80% of trees planted in 2014 are well and thriving.
- All existing orders on keeping the campuses polybag free and as no-smoking zones are being implemented strictly.
- 50 solar street lights and 450 LED bulbs were installed at Aurangabad to save energy.
- Water harvesting systems and sewage treatment plants are working satisfactorily.
- To reduce energy consumption, the process has been initiated to replace fluorescent tube lights and CFL bulbs with LED lights only.
- Only star-rated energy efficient electrical appliances like air conditioners, refrigerators, etc are being procured.
- Biomedical waste management is being carried out as per rules and regulations under strict supervision.

## Criterion – VII

### 7. Innovations and Best Practices

**7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.**

#### 1. Innovation in Education:

##### A. Competency Based Curriculum

- Emphasis on Competency Based Curriculum is being placed with the aim of producing a medical graduate who has adequate knowledge skills, and attitudes to function effectively as a practitioner who can cater to the needs of the local community while remaining globally relevant.
- Competence based education involves skills in three domains of cognitive, psychomotor and affective/attitudinal skills.
- The above is in consonance with the guidelines laid out by MCI in Graduate Medical Education – 2012 (GMR 2012). In addition, the following capabilities are envisioned for medical graduates passing out from the University:
- **As a scientist and scholar**, he/she should be able to apply to medical practice:
  - (a) scientific principles, method and knowledge relating to all Basic Sciences.
  - (b) the method and knowledge of psychological principles, population health and the improvement of health and healthcare.
- **As a clinician**, he/she should be able to carry out an efficient and comprehensive patient consultation and clinical examination, provide correct emergency care, prescribe drugs and carry out practical procedures safely and effectively. He/ she should be able to diagnose and manage clinical presentations, and communicate effectively with patients, their relatives and professional colleagues.
- **As a professional**, he/she should follow ethical and legal principles, be able to learn and teach, and function effectively in a multi-disciplinary team.
- To assist in achieving the above, the University has enlisted the services of Professor N.G. Patil MBE, MBBS, MS, FRCS Ed, FCSHK, FHKAM (Surgery), The University of Hong Kong who is a well-known medical educationist. He has conducted a number of seminars and workshops for the faculty on the Competency Based Curriculum.
- The University organised a Workshop on “Global Perspectives on Medical Education & its relevance to India” at MGM Medical College, Navi Mumbai on 6<sup>th</sup> January 2015. The speakers included international faculty including Dr. Ronald M Harden (General Secretary, Association for Medical Education in Europe (AMEE)), Dr Patricia Lilley (Operatioal

Director AMEE & Managing Editor of “Medical Teacher” & coordinator of “Best Evidence Medical Education Collaboration”), Dr. Nivritti Patil, Dr Madalena Patricio (AMEE past President) and Dr. John Dent (consultant to AMEE).

- On 9<sup>th</sup> to 11<sup>th</sup> January 2015, an “International Convention on Challenges in Medical Education” was organised at MGM Medical College, Aurangabad. International faculty included Lawrence Sherman, Robert G. Carroll, John Sanders, Madalena Patricio, L.C. Chan, N.G. Patil, Dr. Indika Karunathilake, John Dent, Ronald Harden, and Khalid Bin Abdulrahman. A pre-conference workshop on “Essential Skills in Medical Education” (ESME) by Association for Medical Education in Europe (AMEE) was also held. The topics covered included curriculum of medical education, assessment, multifaceted approach to teaching and learning, integration of medical education with public health services, technology and research, strategies and neglected aspects of medical education, and scope for the future.

## **B. Linkages with international and national educational bodies**

- MGMIHS participates in live webcasts from Royal College of Physicians, Edinburgh, Scotland. Its frequency is 1-2 per month and each lasts for 2-3 hours. Faculty and PG students have been attending and benefiting from it, as every webcast discusses important clinical topics.
- Educational Webcasts from Indian Universities and Institutions, related to health sciences are transmitted live. Staff and students are informed in advance so that they can attend the same in large numbers.
- Faculty self-appraisal programme has been implemented in MGM Medical College, Aurangabad, and is being introduced in MGM Medical College, Navi Mumbai also.

## **C. Integrating Gender in Medical Education:**

- The Integrating Gender in Medical Education (GME) project is currently underway in 7 Medical Colleges throughout Maharashtra. This includes 6 Government Medical Colleges and 1 private medical college i.e. MGM Medical College, Navi Mumbai. MGM Medical College is the only private medical college which is involved in this project, and also the only medical college from Mumbai and Navi Mumbai Region which is officially included in the project. Thus in future, MGM Medical College would become a resource institute for integrating gender in medical education for other Medical Colleges in Mumbai and Navi Mumbai.
- The Centre for Enquiry into Health and Allied Themes (CEHAT) with the support of United Nations Population Fund (UNFPA), Directorate of Medical Education and Research (DMER) and Maharashtra University of Health Sciences (MUHS) are the key stakeholders for the project on integrating gender in medical education in Maharashtra. The project aims to sensitise medical students and health professionals to gender inequity and its interaction with health. Specifically, the GME project seeks to achieve gender sensitisation and

awareness on public health issues such as sex selection, abortion and violence against women by integrating gender perspectives in the MBBS curriculum.

- Thus MGM Medical College is leading the cause of Integrating Gender in Medical Education and in the process contributing towards achievement of Millennium Development Goal (MDG 3) i.e. “Promote Gender Equality and Empower Women”.

Innovations in education introduced in 2014 have started showing positive results. These are being monitored closely. The major ones are Integrated learning by Problem based approach, Horizontal & Vertical integration of teaching, Microteaching, Objectively Structured Practical Examination (OSPE) as an assessment tool of learning, Dual degree programmes and Integrated PG-PhD programmes.

All new innovations take time to produce results. So it is good to wait for existing innovative measures to show results rather than keep on introducing more.

## **2. Innovation in Research:**

- **Motivation:**

All undergraduate and postgraduate students are motivated to develop research aptitude from the beginning of their medical education.

- **Faculty promotion rules:**

A minimum number of research publications has been made compulsory for the faculty for promotion.

- **PhD guides:**

PhD guides have been asked to prepare a list of relevant topics in current fields of interest so as to have a ready reference for guiding new students in understanding and selection of an area of study. This helps new scholar to take up the topic for research without wasting much time.

- **Funding:**

All research scholars of the University are motivated and assisted to procure extramural funding through the guidance of the Research Secretariat.

- **Scientific Advisory Committee (SAC)**

This committee has been re-constituted to oversee and monitor the progress of research being carried out in the University. Its members include both senior faculty from the dependent institutions as well as eminent members from other reputed clinical and research institutes. The SAC meets every quarter to address difficulties that may be encountered at various phases of research, and provides appropriate guidance as required.

- **Library:**  
The University has a well-stocked library and updated database available for reference, details of which have been given in para 4.3.
- **New equipment for research:**  
A flow cytometer has been procured for CD4 cell counts, which facilitates research in immunocompromised patients.
- **Linkages & collaborations:**  
Collaborations and Linkages were made with a number of external research agencies for various research projects, some of which are:
  - a. Biomechanics Lab (MGM Centre of Human Movement Science with University of Cardiff and IIT Bombay)
  - b. Board of Research in Nuclear Medicine, Mumbai
  - c. International Society for Biomechanics
  - d. NanoSynth Materials & Sensors, USA
  - e. IKP Knowledge Park, Hyderabad
  - f. Shastri Indo-Canadian Institute, Calgary, Canada.
  - g. Department of Biotechnology, Government of India.
  - h. Department of Science and Technology, GOI.
  - i. ICMR
- **PhDs awarded in 2015:**  
05 PhD research scholars were awarded PhD doctorates in 2015.

### **3. Innovation in Governance:**

1. MGMIHS is focusing on delivering participative, inclusive and transparent governance. It doesn't want to be an organization whose role is restricted to being just a regulatory body, framing rules and regulations and supervising their implementation, though that role is an important, inherent responsibility of a university.

MGMIHS believes that a Health Sciences University must be in synch with the health-care needs of the local community. With that in mind, it reaches out to the local community (Raigarh, Aurangabad and Nanded districts of Maharashtra), find out their major health issues, extend a helping hand to them to solve those issues and direct its thrust in research activities towards finding better, safer and cheaper ways of preventing, diagnosing and treating -diseases, both communicable and non - communicable, that afflict large number of people in these communities.

Community Medicine and Clinical departments of both medical colleges of MGMIHS have been assigned these tasks and they have been performing these responsibilities commendably. The rapport built between MGMIHS and the beneficiary communities of these three districts has generated lot of mutual goodwill. Tuberculosis, women- and child health issues and life-style diseases are some of the major areas in which MGMIHS focuses

its research activities because they pose big challenges. to the public health. MGMIHS liaises actively with state and central government health authorities and help them in whatever way possible, to achieve our goal to provide quality health-care to one and all.

As a result of these efforts, MGMIHS has been able to bring about greater awareness of its students, faculty and other staff towards their social responsibilities as healthcare providers. An important positive achievement will be that all students who pass out from MGMIHS as health care providers (doctors, nurses, physiotherapists, technicians) will be better sensitized to serve their communities.

2. To improve the quality of local governance at the university level, MGMIHS holds frequent brain-storming sessions. All issues are discussed thread-bare. Suggestions are invited from all participants about any new regulations and policies to be introduced or amending the existing ones. Younger faculty members are particularly encouraged to come out with new ideas. All good suggestions are noted and put up to relevant expert committees of the university for further deliberations. These committees recommend actionable suggestions to the Board of Management for final approval, after which they are implemented.

## **7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year**

**Plan of Action 1:** Establishment of full fledged Clinical Skills Lab and Simulation Lab

**Action Taken 1:** Clinical Skills Lab established, Simulation Lab in progress.

**Plan of Action 2:** NABH accreditation of MGM Navi Mumbai Teaching Hospital

**Action Taken 2:** In progress.

**Plan of Action 3:** Increase the capacity of existing facilities.

**Action Taken 3:** The following additional facilities have been introduced:

1. **Biomechanics Lab (MGM Centre of Human Movement Science)**
2. **Dermatology:-** Dermato-plastic OPD started in collaboration with plastic surgery Dept. at MGM Medical College, Navi Mumbai
3. **Biochemistry: Clinical Biochemistry Laboratory for charity established. at MGM Medical College, Navi Mumbai**

4. **Paediatrics: State of Art Paediatric Intensive Care Unit (PICU) – Planning for ICCCM accreditation at MGM Medical College, Navi Mumbai**
5. **Surgery: Breast Clinic & Diabetic Foot Clinic at MGM Medical College, Navi Mumbai**
6. **New Central Library of 25,000 sq.ft. with latest facilities established. at MGM Medical College, Aurangabad**
7. **OBGY ICU: established with a capacity of 05 beds. at MGM Medical College, Aurangabad**
8. **New Dialysis unit established. at MGM Medical College, Aurangabad**
9. **New Kidney Transplant Unit established. at MGM Medical College, Aurangabad.**
10. **Permission for establishing Kidney Transplant Unit at MGM Medical College, Navi Mumbai has been received.**

**Plan of Action 4:** Increase collaborations and linkages with National and International Agencies and Institutions

**Action Taken 4:** Collaborations and Linkages were made with a number of external research agencies for various research projects, some of which are:

- a. Biomechanics Lab (MGM Centre of Human Movement Sciences) with University of Cardiff and IIT Bombay.
- b. Board of Research in Nuclear Medicine, Mumbai
- c. International Society for Biomechanics
- d. NanoSynth Materials & Sensors, USA
- e. IKP Knowledge Park, Hyderabad
- f. Shastri Indo-Canadian Institute, Calgary, Canada.
- g. Department of Biotechnology, Government of India.
- h. Department of Science and Technology, GOI.
- i. ICMR

**Plan of Action 5:** Increase the number of courses/ programs in Medical and Allied Health Sciences

**Action Taken 5:** New Course MSc Molecular Biology has been introduced.

**Plan of Action 6:** Introducing new super- specialities like DM Neurology and MCh Neurosurgery

**Action Taken 6:** In progress.

**Plan of Action 7:** Introduction of Competence Based Curriculum for undergraduate Medical Students

**Action Taken 7:** In this connection, several workshops for faculty have been conducted under the guidance of Professor N.G. Patil, MBE, MBBS, MS, FRCS Ed, FCSHK, FHKAM (Surgery), The University of Hong Kong.

**Plan of Action 8:** Integrating gender in medical education.

**Action Taken 8:** One of the MGMIHS IQAC members was nominated for review of 4 textbooks of Community Medicine and pretesting of Gender sensitive Community Medicine Modules. The report has been submitted to CEHAT and UNFPA.

**Plan of Action 9:** To improve professional competence of institutional faculty by conducting MCI recognized MET workshops

**Action Taken 9:** Four faculty members attended the Revised MET Workshop and AT-COM module at Regional Centre, GS Medical College & KEM Hospital, Mumbai.

**7.3 Give two Best Practices of the institution** (*please see the format in the NAAC Self-study Manuals*)

**A) First Best Practice:**

**1. Title of the Practice : Re-constitution of the existing Research & Recognition Committee as Scientific Advisory Committee for improved efficacy**

**1. Objectives of the Practice**

- The existing Research & Recognition Committee of the University has been reconstituted as a Scientific Advisory Committee to enable more effective overseeing and monitoring of the progress of PhD research projects being carried out under the aegis of the University.
- Being composed of experienced academicians and researchers, the Committee is in an ideal position to offer the requisite guidance and advice to research scholars on relevant matters

## **2. The Context**

- The university plays an important role in carrying out research and in motivation of young students to develop an interest and aptitude in scientific research matters.
- A number of PhD research projects are being carried out in various departments.
- The need was felt for a centralised and regulated mode of monitoring research projects with the aim of providing timely and relevant advice as indicated. This would benefit both the researcher and the University in obtaining the desired outcome of well planned research without delay in progress or conclusion of projects.

## **3. The Practice**

- Eminent scientists from reputed institutes in Mumbai and Navi Mumbai are the members of the Scientific Advisory Committee.
- All PhD students are expected to present the progress of their research to the Scientific Advisory Committee.
- In 2015, the Scientific Advisory Committee met five times to review the research proposals and projects of PhD students.

## **4. Evidence of Success**

- PhD students are significantly benefited by obtaining requisite and timely guidance for their proposals and projects from the eminent academicians and researchers who constitute the Committee.
- 05 PhD research scholars were awarded PhD doctorates in 2015.

## **5. Problems Encountered and Resources Required**

- As many faculties from different institutes are involved in the Committee, a well-coordinated plan for time management is required.

### **B) Second Best Practice:**

#### **1. Title of the Practice : Skills Lab**

#### **2. Objectives of the Practice**

- i. To provide early clinical exposure to the students.
- ii. To enhance comprehensive understanding of the topic to the students.
- iii. To understand the importance of acquiring Basic Life Support knowledge and skills and

- to know when and how to implement them during emergency situations.
- iv. To get updated with latest AHA (American Heart Association) guidelines for CPR.
  - v. To Learn and Practice BLS skills with accuracy to be able to deliver High-Quality CPR.
  - vi. To provide a platform for practising Basic clinical skills e.g. recording blood pressure, venipuncture, taking Arterial Blood Gas sample and catheterization.
  - vii. To provide a platform for practising Advanced clinical skills e.g. Cricothyrotomy procedure, Thoracocentesis, Lumbar Puncture, Central Venous & Line insertion etc.
  - viii. To provide a platform for practising Surgical skills e.g. Surgical Handwash, Suturing techniques, Surgical Etiquettes etc.
  - ix. To provide BLS training to the Community including various government organisations like the Police Department, the Traffic Police, etc. who are likely to be the first responders in Road Traffic Accidents and in emergency situations.
  - x. To get the American Heart Association's Accreditation for the Skills Lab.

### **3. The Context**

Basic Life Support training reinforces healthcare professionals' understanding of the importance of early CPR and rapid defibrillation, basic steps of performing CPR, and using an AED; and the role of each link in the Chain of Survival.

### **4. The Practice**

- i. Globally recognized and simplified Universal BLS guidelines are used for teaching and training purposes.
- ii. Audiovisual Aids used are self-explanatory and send clear messages, which helps for better understanding of BLS knowledge.
- iii. Interactive Sessions - Hypothetical case scenarios are given to students for better learning and understanding of handling emergency situations.
- iv. The session is started with a lecture on Basic Life Support.
- v. This is followed by Educational videos on Basic Life Support.
- vi. American Heart Association recommended "Practice While Watching" the videos is used for training purposes, which helps for better retention of CPR skills.
- vii. Practice on Adult CPR Manikins to Learn and Practice Chest Compressions technique with accuracy to be able to deliver High-Quality CPR.
- viii. Practice on Adult CPR Manikins to secure and maintain the patency of airway using 'Head Tilt-Chin lift' technique.
- ix. Practice on Adult CPR Manikins to give Rescue breaths using Mouth-to-Mouth Breathing, Mouth-to- Pocket Mask (Barrier Device) Breathing and using a Bag-Mask ventilation device.
- x. To use an AED (Automated External Defibrillator) and to understand Universal steps of operating it.
- xi. 1 & 2 Rescuer Adult BLS with AED.

## 5. Evidence of Success

- A total of 262 MBBS Undergraduates, 60 MBBS Interns, 11 Emergency Medicine PG Residents, 80 Nursing staff and 23 dentist were trained in BLS in the skills lab.
- Assessment of the skills acquired by the students was done and all the participants successfully completed the course.

## 6. Problems Encountered and Resources Required

Strengthening of infrastructure and increasing faculty strength is the need of the hour.

### 7.4 Contribution to environmental awareness / protection

- 500 trees were planted in the Navi Mumbai campus in 2015.
- It is heartening to note that 80% of trees planted in 2014 are well and thriving.
- All existing orders on keeping the campuses polybag free and as no-smoking zones are being implemented strictly.
- 50 solar street lights and 450 LED bulbs were installed at Aurangabad to save energy.
- Water harvesting systems and sewage treatment plants are working satisfactorily.
- To reduce energy consumption, the process has been initiated to replace fluorescent tube lights and CFL bulbs with LED lights only.
- Only star-rated energy efficient electrical appliances like air conditioners, refrigerators, etc are being procured.
- Biomedical waste management is being carried out as per rules and regulations under strict supervision.

7.5 Whether environmental audit was conducted? Yes  No

### 7.6 Any other relevant information the institution wishes to add.

#### A.SWOT Analysis

##### Strengths:

- Well equipped research labs with strong collaborations with a number of reputed national and international agencies
- Institutions under the aegis of the University carry out extensive outreach programs of healthcare in Raigad, Aurangabad and Nanded districts.

##### Weaknesses:

- The non-availability of area to expand the campus limits further growth and expansion.

### **Opportunities:**

- More collaborations and linkages are envisioned for relevant high quality research.
- As both Navi Mumbai and Aurangabad campuses are located close to National Highways, and have tertiary care facilities, they receive a large number of trauma cases. This provides the opportunity to develop the Trauma Centre into a centre of excellence in both clinical care and research.

### **Threats:**

- There is a dearth of qualified and experienced medical teachers due to better remuneration opportunities in corporate hospitals and private practice.

**B. MGMIHS was awarded “Lokmat National Education Leadership Award” as Outstanding Medical Institutes (West) on 24th July 2015**

### **8. Plans of institution for next year**

- Increase number of seats for PG Courses
- Starting DM Neurology and MCh Neurosurgery courses
- Implementing Competency Based Curriculum and introducing AT-COM module
- To accelerate the progress of existing research projects by procuring adequate funding and removing other bottle necks.
- To strengthen the work of Alumni association and link it with students support services.
- Establishing solar power generating units wherever practicable and replacing existing CFL lights with LED bulbs.
- Liver Transplant unit at MGM Medical College Aurangabad

*Signature of the Coordinator, IQAC*

*Sd./-*

*Name*

*Lt. Gen. Dr. S. K. Kaul  
Pro Vice Chancellor, MGM Institute*

*Signature of the Chairperson, IQAC*

*Sd./-*

*Name*

*Dr. S. N. Kadam  
Vice Chancellor, MGM Institute*

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## Annexure I

### Abbreviations:

CAS	-	Career Advanced Scheme
CAT	-	Common Admission Test
CBCS	-	Choice Based Credit System
CE	-	Centre for Excellence
COP	-	Career Oriented Programme
CPE	-	College with Potential for Excellence
DPE	-	Department with Potential for Excellence
GATE	-	Graduate Aptitude Test
NET	-	National Eligibility Test
PEI	-	Physical Education Institution
SAP	-	Special Assistance Programme
SF	-	Self Financing
SLET	-	State Level Eligibility Test
TEI	-	Teacher Education Institution
UPE	-	University with Potential Excellence
UPSC	-	Union Public Service Commission

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