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INSTITUTIONAL ASSESSMENT AND ACCREDITATION (Effective from July 2017)

Accreditation - (Cycle -2)

PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI
U-0317
Maharashtra
Navi Mumbai
410209

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA

Section I: GENERAL INFORMATION

1.Name & Address of the institution:	MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI Navi Mumbai Maharashtra 410209
2.Year of Establishment	2006
3.Current Academic Activities at the Institution(Numbers):	
• Faculties/Schools:	8
• Departments/Centres:	36
• Programmes/Course offered:	130
• Permanent Faculty Members:	520
• Permanent Support Staff:	1722
• Students:	4377
4.Three major features in the institutional Context (As perceived by the Peer Team):	1. Water Conservation 2. Human Movement Science Lab 3. Minimal Access Surgery Department
5.Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 19-10-2021 Visit Date To : 21-10-2021
6.Composition of Peer Team which undertook the on site visit:	
Chairman:	P V Vijayaraghavan Phagalvarthi Vasudevan
Chairman:	Amar Rai
Member Co - ordinator:	Mahesh Gupta

Member Co - ordinator:	Pradeep Garg
Member:	Geer M Ishaq
Member:	Pranveer Singh
Member:	Umarani Jayaraman
Member:	Hansa Goswami
Member:	Sheeja S Varghese
Member:	Rajesh Kumar Goel
Member:	Ashok Mhaske
Member:	Imran Ahmad
NAAC Co - ordinator:	Prof. Amiya Kumar Rath

Section II: CRITERION WISE ANALYSIS

*Observations (Strengths and/or Weaknesses) on each qualitative metrices of the key Indicator under the respective criterion***(This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)**

Criterion1 - Curricular Aspects (Key Indicator and Qualitative Metrices(QIM) in Criterion1)

1.1 Curriculum Design and Development

1.1.1 QIM	Curricula developed and implemented have relevance to the local, national, regional and global health care needs which are visible in Programme Outcomes (POs), and Course Outcomes (COs) offered by the University, as per the norms of the Regulatory Bodies.
1.1.3 QIM	Provide a description of courses having focus on competency/ employability/ entrepreneurship/ skill-development offered either by the University or in collaboration with partner Institutions/Industries during the last five years
1.2	<i>Academic Flexibility</i>
1.3	<i>Curriculum Enrichment</i>
1.3.1 QIM	Institution integrates crosscutting issues relevant to Gender, Environment and Sustainability, Human Values, Health Determinants, Right to Health Issues, Emerging demographic changes and Professional Ethics in the curricula
1.3.4 QIM	Students undertaking field visits / research projects / Industry internships/ visits/Community postings as a part of curriculum enrichment
1.4	<i>Feedback System</i>

Qualitative analysis of Criterion 1

Mahatma Gandhi Mission Institute of Health Sciences (MGMIHS), a deemed-to-be university fosters excellence through the delivery of well-structure 'Competency based education programs 'inculcating research culture with the commitment for the delivery of quality healthcare ensuring competency, skill, employability and entrepreneurship. MGMIHS has defined graduate attributes for all of its programs such as Dynamic Professionalism, Exemplary leadership, Effective Communication Skills, Scholarly Attitude, Element of Critical Thinking, Enthusiasm for Research, Social Commitment and Global Competencies. MGMIHS offers 126 programs with 774 courses in medicine, nursing, critical care through its undergraduate, postgraduate, and diploma and research programs. Most of the programs are interdisciplinary in nature. All the academic work is within the framework of concerned Regulatory Council for that program. Considering national aspirations new PG

programs in emergency medicine, geriatrics, IHBT and nephrology have been started along with MS in traumatology and MD in family medicine to cater to the local needs. Skill based programs in biomedical sciences have started to address to the increasing demand of medical technologist. The institute has established MoUs with the institutes of eminence nationally and internationally. A state of art laboratory on 'human movement science' in collaboration with the Cardiff University, UK is functional in the institute. All the programs are in consonance with the requirement of local, regional, national and international aspirations. Choice based credit system (CBCS) is implemented in Physiotherapy and Biomedical Sciences including option for 'electives ' with clearly stated program outcomes (PO) and course outcomes (CO) duly communicated and shared among the stakeholders.

Medical graduate program (MBBS) is a well-structured program with defined National and Institutional goals to produce Indian Medical Graduate with global standards as Physician of first contact for community. Medical Postgraduate program is a rigorous training program with intensive training for higher level of focused expertise. The required knowledge in respective domains, professionalism, communication skills, research & administrative skills make it employable to serve in private / public institutes in India as well as abroad. Nursing Programs (BSc, MSc and Nurse Practitioners in Critical Care) are structured to provide expertise in patient care with compassion. Physiotherapy Programs (BPT, MPT) curricula include sound fundamentals and practical training in Hospital- OPD, IPD, and Specialty clinic setting. Prosthetics & Orthotics (BPO) work with physicians, physiotherapists, and orthopaedicians as an important part of healthcare and rehabilitation team. Biomedical Science programs (BSc, MSc) provide trained Medical technologist manpower in areas of Medical laboratory, Radiology, Perfusion technology, Dialysis, Cardiac Care technology, Operation Theatre technology, Clinical nutrition, Clinical research with potential for employability. PhD courses offered in Medical, Nursing, Physiotherapy, Biomedical sciences have high employability ratio. Incubation and Innovation centre promotes new ideas and designs and provides a platform for innovations and startups. Institute through its curricula sensitizes and make students aware and proactive in Gender, Environment awareness, Human values, Health Determinants, Right to Health Issues, Demographic changes and

Professional Ethics. MGM Aurangabad has secured 5th position for gender parity in India Today Survey. Gender-related issues and sexuality prepared by CEHAT, MUHS and DMER are included in UG Curricula. As per the directives of MHRD, institute has 'Gender champion committee' to create and nurture gender-sensitive environment and promote gender-equity based programs. Institute has also implemented 'Environment and sustainability' course module as per UGC guidelines. Institute is awarded with Swacch Bharat Summer Internship Award in 2018 at State level. MGM Medical College Navi Mumbai, has been awarded Swacch Campus National Award in Technical category by MHRD, Govt of India, consecutively for last 2 years; 2018 (3rd place) and 2019 (1st place). MGMIHS has adopted one student one tree initiative and established MoUs with NGOs to plantation drive on barren lands. Institute runs POISE (Pursuit of Self Excellence) program under SBS, helps in inculcating moral values: self discipline, attitude of Service, Yoga, Meditation, Personality development, Communications skill, Peace, Non-violence, Stress Management, Time management, inculcation of Gandhian values, and Doctor-Patient relationship. MGMIHS is the recipient of 'Heartfulness Organization Award' organized by the Heartfulness International Institute, Hyderabad for promoting wellbeing of staff and students. Other active measures include inclusion of Health Determinants, Right to Health, Emerging demographic changes, and Professional Ethics in the course curricula.

Curriculum is enriched by incorporating field work, research projects, community settings and industry interfaces. Field Visit is mandatory activity of the curriculum. There is a defined rural/community posting. Under Unnat Bharat Abhiyan, MHRD, institute has adopted villages for their overall development with emphasis on water, sanitation, maternal and child health. The impact of these activities has resulted in reduction of maternal mortality. Students also undertake School Health checkup, visits to healthcare delivery centers. UG students have undertaken research projects under ICMR-STs. Research methodology workshops are part of mandatory induction program for post graduate students. Visits to industries are regular feature of the program to get acquainted with the latest technologies in the field of biomedical sciences.

***Criterion2 - Teaching-learning and Evaluation
(Key Indicator and Qualitative Metrics(QIM) in Criterion2)***

2.1	<i>Student Enrollment and Profile</i>
2.2	<i>Catering to Student Diversity</i>
2.3	<i>Teaching- Learning Process</i>
2.3.1 QIM	<p>Student-centric methods, are used for enhancing learning experiences by:</p> <ul style="list-style-type: none"> • Experiential learning • Integrated/Inter-disciplinary learning • Participatory learning • Problem-solving methodologies • Self-directed learning • Patient-centric and Evidence-based learning • The Humanities • Project-based learning • Role play
2.3.3 QIM	Teachers use ICT-enabled tools for effective teaching and learning process, including online e-resources
2.4	<i>Teacher Profile and Quality</i>
2.5	<i>Evaluation Process and Reforms</i>
2.5.4 QIM	Reforms in the process and procedure in the conduct of evaluation/examination; including Continuous Internal Assessment to improve the examination system.
2.6	<i>Student Performance and Learning Outcomes</i>
2.6.1 QIM	The institution has stated learning outcomes /graduate attributes as per the provision of Regulatory bodies which are integrated into the assessment process and widely publicized through the website and other documents
2.7	<i>Student Satisfaction Survey</i>

Qualitative analysis of Criterion 2

Institute has implemented student centric methods to enhance learning experience. Experiential learning involves the training that consists of

practical applications and patient-centric learning experiences through live case presentations, history taking, physical examination, evidence-based discussions on diagnosis and management following competency-based learning. New teaching-learning methods like Peer-assisted learning, Think-Pair-Share, scientific projects, research discussions are in regular practice. The curriculum design with inputs from subject and domain experts follow vertical and horizontal teaching methods. Centralized clinical meetings, mortality audits, Clinico-Pathological Correlation meetings are routinely held. Participatory learning includes didactic lectures, Problem-Based-Learning, Think-Pair-Share and feedback at the end of sessions, Students Led Objective Tutorials (SLOT), Team-Based-Learning, Group discussions, clinical meetings, ward-rounds, seminars, quizzes, microteaching, role plays and case discussions, community outreach activities, health-camps, disaster management rescue missions in accidents, floods, cyclones, blood donation and 'Swachh Bharat Abhiyan' are regular features. Problem-solving methodologies include Problem-Based-Learning (PBL) and Case-Based Learning (CBL) are conducted at OPD and at bed sides. Self-directed learning (SDL) involves directly observed procedural skill (DOPS) through e-resources in all streams, MOOC programs like research methodology and institutional LMS. Patient-centric and Evidence - based learning involves exposure to OPD, IPD, OT, emergency, trauma care, BLS, ACLS, ATLS, simulations and pathological laboratories. Humanities includes Bioethics like Patient privacy, Autonomy, Confidentiality, Right to health, stress management human rights and health-awareness through community visits. Project-based learning involves writing short-term small research projects under expert faculties. Other measures include 'Resident as a teacher' workshops for PG students to teach innovative pedagogical practices, Doctor Patient relationships, informed consent, breaking bad news etc. Additionally, institute and its affiliate observe World breast-feeding week, ORS week, Tuberculosis day, World Mental health Day, Cerebral palsy day, National nutrition week and adolescent health awareness day are few examples. Role Play seeks to educate on doctor patient relationships, informed consent, breaking bad news and develop active learning, critical thinking and communication skills.

Teachers are using ICT-enabled tools for effective teaching/learning process. Entire campus is wifi-enabled and classrooms are equipped with ICT facilities. Live videos of demonstration (robotic surgery through skype) and procedures are done. Computer-assisted-learning (CAL) is employed for case discussions, clinical work, animal experiments. Online cloud-based programs such as MRCP Edinburgh, coursera.org, SWAYAM, OMNICURIS, Docmode, MCI, INC, UGC resources are available for enhanced learning experience. Central library provides access to 28 E-databases in both campuses.

Formative (Internal) examinations are conducted at the departmental level with continuous monitoring of student's progress. Competency Based Assessment such as Clinical / practical skills training methods e.g. DOPS, OSVE, OSCE, OSPE are adopted to make students competent and fit to practice independently. Students are assessed on-site by their supervisors while posted in OPD, wards, casualty, laboratories, OT, skill laboratories, blood banks and dialysis unit. OSCE, OSPE helped students to improve cognitive function and professional competency. Directly observed procedure skills (DOPS) are practiced in skill training such as BLS, ACLS, ATLS, NALS, PALS and NRP, internship and induction programs.

The Course Outcomes are formulated to make students competent with respect to all domains of learning (Cognitive, Affective, Psychomotor domains). The Institution has clearly stated POs and COs for all of its academic programs at the department level. Same is uploaded on the institute website. Measures have been adopted to ensure that the desired outcomes are achieved and the supporting facilities are designed. Assessment methodology/ tools are designed in line with the parameter of learning outcomes. Course Outcomes and objectives are printed in student handbooks and syllabus in respect of each subject. The assessment is done in formative domain at department level and summative at university level. The correlation in formative and summative assessment is regularly monitored.

***Criterion3 - Research, Innovations and Extension
(Key Indicator and Qualitative Metrics(QIM) in Criterion3)***

3.1	<i>Promotion of Research and Facilities</i>
3.1.1 QIM	The institution has a well defined Research promotion policy and the same is uploaded on the institutional website
3.2	<i>Resource Mobilization for Research</i>
3.3	<i>Innovation Ecosystem</i>
3.3.1 QIM	Institution has created an ecosystem for innovations and entrepreneurship with an Incubation centre, entrepreneurship cell
3.3.2 QIM	Workshops/seminars conducted on Intellectual Property Rights (IPR) Research methodology, Good clinical Practice, Laboratory, Pharmacy and Collection practices, Research Grant writing and Industry-Academia Collaborations during the last five years
3.4	<i>Research Publications and Awards</i>
3.5	<i>Consultancy</i>
3.5.1 QIM	Institution has a policy on IPR and consultancy including revenue sharing between the Institution and the individual, besides a training cum capacity building programme for teachers, students and staff for undertaking consultancy
3.6	<i>Extension Activities</i>
3.6.3 QIM	Number of awards and recognition received for extension and outreach activities from Government / other recognised bodies during the last five years
3.6.4 QIM	Institutional social responsibility activities in the neighborhood community in terms of education, environmental issues like Swachh Bharath, health and hygiene awareness, delivery of free/ subsidized health care and socio economic development issues carried out by the students and staff, including the amount of expenditure incurred during the last five years
3.7	<i>Collaboration</i>

Qualitative analysis of Criterion 3

MGMIHS has documented 'Research promotion policy' approved in 2013. Institute promotes excellence in research by instituting fellowships, testing facility at subsidized rates, seed-grant for research, financial support for organizing conference or participation, patent/technology transfer, study-leave, etc.

Institute has 'MGMIHS incubation and innovation center' focusing on unmet needs and imparts thrust to innovation and entrepreneurship among students. Institution Innovation Council (IIC) at MGMIHS is recognized by the MHRD, GOI. Their initiative has resulted in 9 startups within a span of 3 years in the first phase from MGM Centre of Human Movement Science, MGM Analytical - affordable biomedical devices, and Life-Biotech-Technology for Biosciences. MGMIHS has collaborated with *Jugaad Funda LLP* for Innovation incubation management platform that enables to establish technology commercialization ecosystem on the campus. Various SOPs/Policies have been developed by the Institute to encourage student and faculty for IPR filing.

Various workshops and talks have been organized on the themes of Intellectual Property Rights, Research methodology, Good clinical Practice, Research Grant writing, and Industry-Academia Collaborations. They have 2 patents granted, 9 published patents, 3 filed and 74 Copyrights published to their credit.

MGMIHS has adopted a Policy on Intellectual Property Rights (IPR) and Consultancy Policy. IPR policy relates to the ownership, protection, process of making application for protection of IP and the commercial exploitation of IP created by MGMIHS. The share of revenues from Patent/Trademark/Copyrights are decided as per mutual discussion between the concerned parties. In cases where there is more than one Inventor, the Inventor's share is divided between the Inventors in a proportion which reflects their respective contributions as provided in the signed Invention Disclosure Form. This Policy is in effect since year 2018 however the revenue sharing of patent after commercialization will be effective from 2019 onwards given as Institution (50%) Investigator (40%), Departmental Development (10%). MGMIHS has put in place required consultancy policy and processes for its smooth operation and

execution. The Consultant / Principal Investigator of the parent Institute with support from consultancy partner will directly deal for satisfactory completion of the terms and conditions.

MGMIHS is instrumental in inculcating values and commitment to society through learning activities. In all MGMIHS has organized 2550 community-based extension activities within the last 5 years with the participation of staff and students. The recognition for their work includes; First rank for Swachh Campus Ranking 2019 of HEI's by MHRD, recognition of community services in the field of Tuberculosis Program by Directorate of Health Services of Government of Maharashtra in 2019, Excellence in Community Engagement" by Association of Health Care Provider, India (AHPI) in Global Conclave in 2019. Outstanding contribution by the institution in Kerala flood relief mission recognized by State Government of Kerala, 4 best intern awards by the MHRD, Government of India in Swachhata Sarvekshan (2018), 1st and 6th ranks in survey on Gandhian Values by Delhi based NGO 'Re Think India'(2018) and Green Institution Mentor by Mahatma Gandhi National Council of Rural Education, Hyderabad, MHRD, GOI.

Extension and outreach activities are regularly conducted in collaboration with industry, community, Government and Non-Government Organization's engaging NSS/NCC/Red cross/YRC, institutional clubs etc.

Extension activities include health screening, multi-diagnostic camps, health awareness, cleanliness drives through neighborhood community adoption programs, NSS activities and rallies & walkathons. MGMIHS has played active role during natural calamities like the Kerala and Kolhapur floods. These initiatives were recognized and acknowledged on various platforms by government and non-governmental agencies with various awards, honor's and recognitions. The institute has its own research journal indexed in DOAS.

The institute is working closely with the community for various programs such as Community Education, adoption of five villages through NSS, Free and Subsidized Health Care through 'Mahatma Jyotiba Phule Jan Arogya Yojana' and empanelment in 'Ayushman Bharat', GOI. Philanthropic initiatives such as disaster relief, free plastic surgery camp, Thalassemia camp has been organized. MGMIHS has spent around 9.8 crores for aforementioned schemes as its corporate social responsibility (CSR) initiative during last five years.

Criterion4 - Infrastructure and Learning Resources
(Key Indicator and Qualitative Metrics(QIM) in Criterion4)

4.1	<i>Physical Facilities</i>
4.1.1 QIM	The institution has adequate physical facilities for teaching – learning, skills acquisition etc
4.1.2 QIM	The institution has adequate facilities to support physical and recreational requirements of students and staff – sports, games (indoor, outdoor), gymnasium, auditorium, yoga centre, etc. and for cultural activities
4.1.3 QIM	Availability and adequacy of general campus facilities and overall ambience
4.2	<i>Clinical, Equipment and Laboratory Learning Resources</i>
4.2.1 QIM	Teaching Hospital/s, Equipments, Laboratory and clinical teaching-learning facilities including equipment as per the norms of the respective Regulatory Bodies
4.2.2 QIM	Describe the adequacy of both outpatients and inpatients in the teaching hospital during the last five years vis-à-vis the number of students trained and programmes offered (based on HIMS / EMR) within 500 words.
4.3	<i>Library as a Learning Resource</i>
4.3.1 QIM	Library is automated using Integrated Library Management System (ILMS)
4.3.2 QIM	Total number of books and reference volumes as well as collection of ancient books, manuscripts, Digitalized traditional manuscripts, Discipline-specific learning resources from ancient Indian languages, special reports or any other knowledge resource for library enrichment especially with reference to traditional systems of medicines
4.4	<i>IT Infrastructure</i>
4.4.2 QIM	Institution frequently updates its computer availability for students and IT facilities including Wi-Fi

4.4.4 QIM	Facilities for e-content development such as Media centre, audio visual centre, Lecture Capturing System(LCS), etc.,
4.5	<i>Maintenance of Campus Infrastructure</i>
4.5.2 QIM	There are established systems and processes for maintaining physical and academic support facilities: (laboratory, library, sports facilities, computers, classrooms, etc.)

Qualitative analysis of Criterion 4

There are two campuses of MGMIHS which in 69 acres of land (Navi Mumbai 25 acres and Aurangabad 44 acres). All the constituent units of both the campuses have adequate infrastructure. There are adequate physical & recreational facilities such as sports, games (indoor, outdoor), auditorium, yoga Centre and cultural activities along with an Olympic size swimming pool and Gymnasium with modern amenities.

The other facilities like LAN, LCD, OHP projectors, interactive boards, smart classrooms, bedside clinical rooms, and sound system are available as per the norms of respective Statutory Councils. Both campuses have well equipped NABH accredited hospitals. The Department of Community Medicine provides exposure to medical students to the Community setting by adopting families in rural area as well as organizing education visits to different public health departments & social Institutes. NABL accredited labs 71 laboratories (42 student labs, 16 diagnostic/clinical labs & 13 are research labs), Animal house (as per CPCSEA norms), Central research lab, advanced Sleep lab, Nursing Foundation Laboratory, Nutrition Laboratory, Community Health Nursing Laboratory, Skill Labs (with CPR mannequins, Automated External Defibrillator, ECG simulators & rhythm generators available for BLS & ALS training). The university also has the OMICS Research Center and a MGM Centre of Human Movement Science.

School of Physiotherapy at both the campuses have fully equipped Electro-Therapy & Electrodiagnostic Lab, Therapeutic Gymnasium & Kinesiotherapy Lab, Exercise physiology, Fitness lab and Yoga. Aurangabad campus has ADR monitoring centre recognized by Indian Pharmacopoeia commission (IPC) for pharmacovigilance. AYUSH-related learning cum therapy center, Arogyam perpetuates Naturopathy are also available.

Institute has 15 hostels with the intake capacity of around 3500 along with adequate staff quarters and guest house.

The MGM Hospital offers adequate OPD, IPD, emergency, superspeciality services etc. The total number of beds is 2004. The other facilities include a canteen, bank, signages, barrier-free campus, alternative source of energy, waste management facility, multilevel parking and 24 hours CCTV surveillance etc.

Teaching hospitals in both the campuses are well equipped with all facilities for patient care & clinical teaching –learning as per the norms of Statutory Councils. MGM Hospital Aurangabad is NABH accredited with 927 beds & MGM Hospital Navi Mumbai is also NABH accredited with 1077 beds (Total 2004 beds) with 85% bed occupancy. Basic specialty services like General Medicine, Pediatrics, Respiratory Medicine, Dermatology, Psychiatry, General Surgery, Orthopedics, Obstetrics & Gynecology, ENT and Ophthalmology etc. Super specialty services like, Cardiology, Neurology, Nephrology, Endocrinology, Cardiovascular Thoracic Surgery, Urology, Pediatric Surgery, Neurosurgery, Plastic surgery, gastroenterology is also available. Well-equipped surgical suites for minor/complex surgeries are available. Total Operation Theatres are 33 out of which 3 are modular. Average of about 1500 major & minor surgeries are being carried out every month. Medical, Surgical, Pediatric, Neonatal, Respiratory & Coronary care ICUs are well equipped with multipara monitors, ventilators, defibrillators, central oxygen, suction, IABP and facility for dialysis inside ICU. Dialysis unit with total 16 machines functions round the clock. ART and ICTC center is in collaboration with NACO. Pharmacy is open round the clock with generic drugs. MGM Hospital, Aurangabad is registered with Director of Health Services, Maharashtra for renal transplant & has done 113 renal-transplants successfully. Dept of Respiratory Medicine is having Specialized services through the DOTS center. Different teaching departments, pathology and testing labs are well equipped. Laboratories are NABL accredited with the required facilities. FDA approved and NABH accredited blood bank, clinical skill simulation lab, sleep lab, spine care lab, center for the human movement science etc. are available. OPD block have 75 cabins with a view-box for faculty, clinical demonstration room is attached to each ward for regular bed side teaching. Average daily IPD is 250 with 80 to 85 % occupancy in various wards. Daily average footfall of OPD is around 3000 patients. School of physiotherapy has separate OPD with

daily average footfall of 80 – 100 patients. Geriatric OPD caters to need of patients above 60 years. There are 2004 beds for inpatient care as per requirement of Statutory Council with average occupancy of about 80-85 percent. The hospitals have well equipped surgical suites for minor and complex surgeries. Average of about 1500 major & minor surgeries are being carried out in both hospitals every month with facility of live telecast.

There are 200 beds in ICUs with 100% occupancy providing adequate learning for students. Post graduate students get hands on training in bed side procedures like central line insertion, endotracheal intubation, mechanical ventilation. Around 4000 Pathology, Biochemistry and Microbiology investigations and 1000 radiological investigations take place daily.

Nursing students are rotated in different inpatient and outpatient departments of the hospital under the supervision of their faculty. Dialysis units at both campuses have 24 hours running service with around 80 dialysis daily. More than 1000 radiological investigations take place daily. Average yearly student-patient ratio is 1:316 for OPD & 1:29 for IPD patients for various UG & PG medical Courses.

The library is automated using the KOHA: Integrated Library Management System (ILMS). The cataloguing, searching, member patron management, an acquisition system, and circulation: issues, returns, and reserves, etc. have been fully automated. Total number of books and reference volumes are 33740 and 9027 respectively. The number of different books/titles as on June 2019 are, textbook (33740), reference volumes (9027), ancient books (112), old manuscripts (1360), special reports (314), other knowledge resource (1612) making a total of 46165 books/titles. Additionally, there is a bone library with around 4418 disarticulated bones.

MGMIHS is supported by 1.0 Gbps Broadband Line from National Knowledge Network (NKN) with round the clock Internet facility, Optical Fiber and Wi-Fi. LCD projectors interfaced with computers have been installed in all the Lecture Halls/Class Rooms. The admission and examination modules have been made automated. All OT's are connected to the AV rooms.

MGMIHS has a state-of-the-art media centre with inbuilt Audio-visual facility at its Aurangabad campus and provides for the production of e-content.

The infrastructure is well maintained by implementing Standard Operating Procedures for maintenance of physical facilities. The Maintenance Committee oversees the maintenance and utilization of physical, academic and other support facilities. Optimum working condition of all properties/equipment in the campus is ensured through annual maintenance contracts (AMC). All medical equipment's are taken care by Bio medical dept & engineers through AMC.

***Criterion5 - Student Support and Progression
(Key Indicator and Qualitative Metrics(QIM) in Criterion5)***

5.1	<i>Student Support</i>
5.1.4 QIM	The institution has an active international student cell
5.2	<i>Student Progression</i>
5.3	<i>Student Participation and Activities</i>
5.3.2 QIM	Presence of Student Council and its activities for institutional development and student welfare
5.4	<i>Alumni Engagement</i>
5.4.1 QIM	The Alumni Association/Chapters (registered and functional) has contributed significantly to the development of the Institution through financial and other support services during the last five years

Qualitative analysis of Criterion 5

MGMIHS has an international cell headed by Director -Staff and Student Welfare Affair. The cell is taking care of the international student exchange programs between foreign universities and helping the foreign student to join the regular programs in MGMIHS. They provide help in the application process visa processing, FRO registration etc. for the international students. They provide support through mentorship, finding accommodation, food, local transport and community participation through their well-structured services. They have a language facility which is designed to develop language skills of international students in Hindi and Marathi. They also facilitate student exchange program and they are maintaining the details and feedback of all the external students who underwent training in the institution.

The institution has a student council with the elected student representatives from each class. Along with faculty in charge, the elected General Secretary, Cultural Secretary and Sports secretary co-ordinate the various activities of the council. The committee members are enthusiastically involved in all the extracurricular and cocurricular activities. The members of this council represent various other institutional committee such as curriculum committee, mess committee, IQAC, College council etc. The student council organizes various activities such as freshers meet, annual art and cultural programs, sports meet, farewell meet and Alumni meet. They take part in the green campus initiative and also take part in many activities of social cause and community welfare. The students are part of the NSS Unit of the institution and are actively involved in the community programs.

Alumni association of MGMIHS is registered with Assistant Charity Commissioner (302/2018/ Raigad) and having seven chapters, four at Navi Mumbai and three Aurangabad Campus. The association has collaboration with ALMA Shines Technologies private limited for conducting collaborative learning activities. With the contribution from alumni skill laboratory has been set in Navi Mumbai campus. The merit awards are also given from the contributions of alumni and alumni has contributed more than 2000 books to the library. Alumni extend their help in career guidance, placement and student exchange program especially in allied health science programs.

***Criterion6 - Governance, Leadership and Management
(Key Indicator and Qualitative Metrics(QIM) in Criterion6)***

6.1	<i>Institutional Vision and Leadership</i>
6.1.1 QIM	The Institution has clearly stated vision and mission which are reflected in its academic and administrative governance.
6.1.2 QIM	Effective leadership is reflected in various institutional practices such as decentralization and participative management etc.
6.2	<i>Strategy Development and Deployment</i>
6.2.1 QIM	The institutional Strategic plan is effectively deployed.
6.2.2 QIM	Effectiveness and efficiency of functioning of the institutional bodies as evidenced by policies, administrative setup, appointment and service rules, procedures etc.
6.3	<i>Faculty and Staff Empowerment Strategies</i>
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff, and other beneficiaries.
6.3.5 QIM	Institution has Performance Appraisal System for teaching and non-teaching staff
6.4	<i>Financial Management and Resource Mobilization</i>
6.4.1 QIM	Institutional strategies for mobilisation of funds and the optimal utilisation of resources
6.4.3 QIM	Institution conducts internal and external financial audits regularly
6.5	<i>Internal Quality Assurance System</i>
6.5.1 QIM	Institution has a streamlined Internal Quality Assurance Mechanism
6.5.3 QIM	Impact analysis of the various initiatives carried out and used for quality improvement

Qualitative analysis of Criterion 6

The university has a well-defined Vision and Mission statements based on Gandhian philosophy and is reflected at various locations in University.

The leadership structure of organization & university is well defined. The administration is decentralized and participatory with stake-holders being involved in decision making. The leadership is committed to social services, good governance, promotion in research. There is however opportunity for university to implement strategic plan as well as policy development goals that will go a long way in resource allocation and development.

Governance is as per statutes. University has adopted a decentralized system of governance through BOM, Finance Committee, Academic Council and Planning & Monitoring Board and members from Govt of India, academia, industry, alumni, students and professionals. This provides ample opportunities to its major stakeholders viz. students, faculty, staff, alumni and employers to participate in the development of the institute. All the statutory bodies are constituted as per UGC norms, and they meet periodically to formulate policies, critically review the progress made and offer suggestions for institutional development.

E-governance strategies are well established for speedy, effective, transparent implementation of policies and make the administration efficient.

The institution also has various grievance redressal bodies such as Internal Complaints Committee (ICC) and grievance redressal committees for students, faculty and staff members.

The financial management and resource mobilization are done in professional manner. There is prescribed process for purchase, inventory management and audit. The revenue generated by university is mainly in the form of tuition fees from the students. Alumni involvement in corpus generation can be strengthened.

The university has well-structured performance appraisal system, and this is taken in to consideration for promotions and awards/ incentive. University also has as a well formulated staff welfare policy in place. Staff welfare measures includes campus accommodation, recreational facilities, inhouse health care and financial support to needy.

The IQAC is established in each constituent units as well as in the university. The IQAC carries out academic audit and monitor the various academic activities in university. There are regular meetings of IQAC for sustenance and enhancement of quality. The IQAC of the institute monitors the teaching-learning process and attainment of learning outcomes on a continuous basis. Necessary steps have been taken for

post accreditation quality assurance. The recommendations of the previous NAAC team have been implemented and there is regular monitoring including academic audits.

**Criterion7 - Institutional Values and Best Practices
(Key Indicator and Qualitative Metrics(QIM) in Criterion7)**

7.1	<i>Institutional Values and Social Responsibilities</i>
7.1.1 QIM	Measures initiated by the institution for the promotion of gender equity during the last five years.
7.1.3 QIM	<p>Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within 500 words)</p> <ul style="list-style-type: none"> • Solid waste management • Liquid waste management • Biomedical waste management • E-waste management • Waste recycling system • Hazardous chemicals and radioactive waste management
7.1.8 QIM	Describe the institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and other diversities (within 500 words)
7.1.9 QIM	Sensitization of students and employees of the institution to the constitutional obligations: values, rights, duties and responsibilities of citizens
7.1.11 QIM	Institution celebrates / organizes national and international commemorative days, events and festivals
7.2	<i>Best Practices</i>
7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.
7.3	<i>Institutional Distinctiveness</i>

7.3.1 QIM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words
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Qualitative analysis of Criterion 7

The university is sensitive to gender equality and address issue like women safety and women empowerment. (65% female students and 60% female staff). Grievance Redressal and Internal Complaints /Prevention of Sexual Harassment Committees are active. Special counselling services are available to the female students and employees. MGM Aurangabad a constituent unit has secured 5th position for gender parity in India Today Survey. *Value-added courses* on gender sensitization and emotional intelligence are implemented effectively.

A day care facility for differently-abled children (Divyangans) and Child Care Centre for children of women employees are available in the campus.

The university has eco friendly green campus. There is policy for biomedical waste disposal. The waste water is treated in a plant and reused for toilet flushing, gardening and cooling HVAC system. Biodegradable waste is processed for composting and the compost produced is used for gardening.

The university focuses on healthy practices like, plastic free campus, smoking free campus & encourages practices like use of public transports, car-pooling etc.

A unique automatic Water Treatment Plant that converts rain water and grey water (domestically used water) into potable water has been established at Navi Mumbai campus, with minimal space and energy requirement and an output of 80 kilolitres/day.

E waste is managed as per the E-Waste Management Rules, 2016. No radioactive waste is generated in campus.

Appropriate activities are planned and organized to increase awareness of Fundamental Duties and Rights, Human Values and Professional Ethics. National Days, National Festivals, International Yoga Day, Birth and death Anniversaries of Indian personalities are organized and celebrated.

The university caters to the needs of differentially able people. Facilities for specially-able students exist.

The best practices of university are -

1- Innovative practice for enhancement of water conservation and sanitation management and Inculcating research conceptualized with establishment of a unique plant for waste water recycling to augment the supply of potable water.

This method at WTP is being patented. It was extended further to improve basic sanitation and water management facilities in rural villages adopted under Unnat Bharat Abhiyan and Swacchta Action Plan.

University contribution was acknowledged by **MHRD with Commendation Award** (Award for "*Green Institutional Mentor*" for *contribution to water conservation and sanitation management*) **Swacch Campus Ranking 2018 & 2019 and Association of Health Providers (India) Award 2019**

2- Inculcating research, innovation and entrepreneurship among students and staff at MGMIHS focusing on research in areas ranging from drug discovery to patient care. It provides basic, advanced and applied training in research.

Innovation drive is focused on interdisciplinary research in the areas of Tuberculosis, Malaria, Diabetes, Cardiovascular, Obesity, Ocular diseases etc.

Two patents awarded, 9 patents & 74 copyrights published, 2175 publications in peer-reviewed journals and 108 collaborations/MOUs for research have been promoted.

MGM centre of human movement science is working for Integration of clinical biomechanics in Indian healthcare' as area of priority & thrust of institute with support from International Society of Biomechanics, Pennsylvania, USA and Biomedical Engineering and Technology (incubation) Centre (BETiC)-IIT-Bombay. This is unique and first of its kind in India.

The mission is to provide people with comprehensive movement-analysis facilities following injury/disorder at an affordable cost. The Centre has validated 5 devices in motion-technology; out of which two were awarded for scientific innovation at national and international level respectively.

The exclusive feature of MGMCHMS is its interdisciplinary approach adopted to train students and research scholars offering clinical-services in India along with Bangladesh and Germany and validates technologies

developed by industries.

The distinctive feature of the university are high academic standards, innovative teaching learning practices and working on various social issues in its neighborhood network in rural, tribal and underserved urban areas.

Section III:OVERALL ANALYSIS (based on Institutional strengths.Weaknesses,Opportunities & Challenges(SWOC)(up to 500 words))

Overall Analysis

1. Water conservation
2. Solar Energy utilization
3. Low attrition and high retention of the faculty.
4. Human Movement Lab
5. Skills simulation lab, Minimal invasive surgery department, Khadi Centre, Media Lab, Physiotherapy Labs at Aurangabad
6. Computer assisted learning and Clinical Trials Centre of the Dept. of Pharmacology at Navi, Mumbai and Aurangabad respectively.
7. Introduction and implementation of student-centric, innovative teaching pedagogies including problem-based, experiential, project-based, competency-based, field-based learning.
8. Herbal garden having many medicinal plants.

Section IV:Recommendations for Quality Enhancement of the Institution

(Please limit to ten major ones and use telegraphic language)
(It is not necessary to indicate all the ten bullets)

- 1. There is a need to provide more academic flexibility in the programmes through electives and value-added programmes.
- 2. Policies on curriculum development and faculty development need to be evolved and implemented.
- 3. Institution should encourage more medical and allied professionals including faculty to register for Ph.D.
- 4. Institution needs to develop/procure and implement its own customized Learning Management System (LMS).
- 5. University should include more stringent criteria on research matrix for annual performance-based appraisal for faculty besides develop promotion policy.
- 6. There is a scope for strengthening the student support services with additional manpower and part-time faculty involvement along with creation of the positions of Assistant Dean (Student Welfare).
- 7. Strengthening of Information Technology and Support System along with introduction of an integrated Management Information System through e-governance initiatives is needed.
- 8. There is a need to improve the infrastructure and faculty for the University Department of Prosthetics and Orthotics at the Navi Mumbai Campus and the School of Biomedical Sciences at Aurangabad Campus.
- Allocation of more funds for research activities.

I have gone through the observations of the Peer Team as mentioned in this report

Signature of the Head of the Institution
Seal of the Institution

Signature of the Peer Team Members:

Sl.No	Name		Signature with date
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1	P V Vijayaraghavan Phagalvarthi Vasudevan	Chairperson	
2	Amar Rai	Chairperson	
3	Mahesh Gupta	Member Co-ordinator	
4	Pradeep Garg	Member Co-ordinator	
5	Geer M Ishaq	Member	
6	Pranveer Singh	Member	
7	Umarani Jayaraman	Member	
8	Hansa Goswami	Member	
9	Sheeja S Varghese	Member	
10	Rajesh Kumar Goel	Member	
11	Ashok Mhaske	Member	
12	Imran Ahmad	Member	
13	Prof. Amiya Kumar Rath	NAAC Co-ordinator	

Place: Date