



MGM INSTITUTE OF HEALTH SCIENCES

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

Grade 'A' Accredited by NAAC

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ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

MGMIHS NAVI MUMBAI

8th AND 9th February 2021

Report of the Academic and Administrative Audit Committee

Name of the University: MGM Institute of Health Sciences, Navi Mumbai

Address: MGM Institute of Health Sciences, Sector 1, Kamothe, Navi Mumbai

Year of establishment: 30-08-2006

Name of Vice Chancellor: Dr. Shashank D. Dalvi

Name of Registrar: Dr. R. B. Goel

Name of IQAC Coordinator: Dr. Rita M. Khadkikar

Total number of constituent Units: 8

Total number of Departments: 34

Permanent faculty strength: 487

Permanent supporting staff strength: 1557

Total number of students: 3952

Date of AAA Committee visit: 8th and 9th February 2021

Visit schedule: *Annexure*

Composition of AAA Committee:

1. Dr. Narinder Kumar Aggarwal, Professor and Head, Forensic Medicine, UCMS, New Delhi (Chairperson)
2. Dr. Siddharth P. Dubhashi, Professor and Head – Surgery, Dean (SW), Chairperson-CMET, AIIMS Nagpur (Member)
3. Dr. Savita Ravindra, Professor and Head, Physiotherapy, Ramaiah Medical College, Bengaluru (Member)
4. Dr. Sudha Raddi, Dean, Faculty of Nursing, principal, Institute of Nursing Sciences, KLE AHE, Belgavi (Member)

Criterion wise response of the Institution for qualitative metrics:

| Criterion 1: | |
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| Response of University: | |
| | Key Indicator – 1.1 Curriculum Design and Development (50) |
| Metric No. | |
| 1.1.1 Q _i M | <p><i>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.</i></p> <p>Response to be provided within 500 words</p> <ul style="list-style-type: none"> • MGMIHS with its roots in Gandhian Philosophy of service, Inclusiveness and nation building, aspires to be Institute of Excellence globally through Competency Based Educational Programs, inculcating research culture with commitment for quality health care. • MGMIHS offers 126 programs with 774 courses. Medical – MBBS, MD, MS, PG Diploma, DM, M.Ch., Nursing – B.Sc, P.B.B.Sc, M.Sc; Post Basic PG Diploma, Nurse Practitioner in Critical Care, Physiotherapy – BPT & MPT, Prosthetics & Orthotics – BPO; Biomedical Sciences – B.Sc & M.Sc, MHA, MPH. Ph.D. & Fellowship programs are offered in relevant disciplines. • Curricular design, development and Syllabus revisions is a continuous process for which the Institute has established a system within the framework of UGC regulations. MGMIHS is having eight Board of Studies, three Faculties, Academic Council which are taking all academic decisions which are approved by Board of Management. All the academic work is within the framework of concerned Regulatory Council for that program. • Institute has started new medical postgraduate programs based on national needs to have competent specialists in Emergency Medicine, Geriatrics, IHBT, Nephrology. MD Geriatric Medicine Program is started to cater to the needs of increasing geriatric population. • Considering the location of the college and number of trauma cases admitted, MS Traumatology and Surgery program is being started which is the unique & first of its kind throughout the country. • MD Family Medicine Program, the need of the hour is being started, which is available only in seven Medical Colleges of the Country. • M.Sc (Nurse Practitioner in Critical Care) an outcome based nursing program is a unique program has been started by the institute for empowerment of Nursing Professionals. |

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| | <ul style="list-style-type: none"> • MGMIHS has started MPT in Sports Physiotherapy considering the importance of Sports. • MGMIHS has the distinction of being the first Deemed-to-be- University to have initiated BP&Oprogram, which addresses the rehabilitative needs of “Divyang Jan”. • Fellowship programs are offered to enhance the skills in the specialized field with recent advances.g. Endoscopic Surgery, Gastroenterology & Laparoscopy etc. • The outcome based and Skill Oriented Programs in Biomedical Sciences, to meet the increasingdemand of Medical Technologists has been started. • Medical graduate programs are skill based, facilitated through integrated teaching, communityoriented, problem based learning. Competency Based Medical Education (CBME) as per MCI isbeing implemented. • The Institute has implemented Choice Based Credit System (CBCS) in all the programs of Physiotherapy and Biomedical sciences. • The Institute has clearly stated program outcomes (Pos), and course outcomes (Cos),communicated to the faculty & students, which are monitored throughout. • The curricula developed and implemented have relevance to Local, Regional, National and Globalhealthcare needs leading to well defined graduate attributes. |
| Metric No. | |
| 1.1.3 Q_iM | <p><i>Provide a description of courses with focus on competency/ employability/ entrepreneurship/ skill-development offered either by the University or in collaboration with partner Institutions / Industries during the last five years</i></p> <p>Response to be provided within 500 words</p> <ul style="list-style-type: none"> • Healthcare delivery requires competent team of Health professionals- Doctors, Nurses, Physiotherapists, Biomedical Technologists and Paramedics. MGMIHS strives for the quality education through its programs and courses with emphasis on Competencies/Skill development which helps in Employability and Entrepreneurship. • MGMIHS has defined eight Graduate Attributes to all its programs viz; Dynamic Professionalism, Exemplary leadership, Effective Communication Skills, Scholarly Attitude, Element of Critical Thinking, Enthusiasm for Research, Social Commitment and Global Competencies. • 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. Now, in CBME, The Indian Medical graduate has five roles- Clinician, Communicator, Leader and member of team, Professional, and Lifelong Learner and these are adapted by MGMIHS. Tertiary care hospital with state-of-art equipments, skill lab & expert |

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| | | <p>professionals provide great opportunity for achieving competency.</p> <ul style="list-style-type: none"> • Medical Postgraduate program is a rigorous training program with intensive training for higher level of focused expertise. Students have to undertake a research project culminating in publication. Medical Postgraduate with 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. Training incorporates clinical skills, communication skills, counseling, community postings and hands-on training. Nursing professionals have great potential with high demand in India & abroad. • Physiotherapy Programs – (BPT, MPT) curricula include sound fundamentals and practical training in Hospital- OPD, IPD, and Specialty clinic setting. There is a Human Movement Science laboratory in collaboration with Cardiff University, UK. There is an increasing demand for Physiotherapists across the globe. • Prosthetics & Orthotics – (BPO) They 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. They nurture skillful proficiency and are in great demand. • MGMIHS has 41 collaborations and MOU with National and International organizations like American Heart Association (AHA), University of Pennsylvania, University of Utah, NACO, Shastri Indo Canadian Institute etc. • PhD – PhD courses offered in Medical, Nursing, Physiotherapy, Biomedical sciences provide opportunities for in-depth understanding of the health problems, critical thinking and problem solving abilities. It provides better opportunity for employment to various academic, research and applied fields. • MGMIHS has an Incubation and Innovation centre which promotes new ideas & designs and provides a platform for innovations and startups for young budding students and Healthcare professionals to enhance entrepreneurship skills. • This has resulted in all the programmes of MGMIHS to create competent, skillful, employable, and enterprising graduates. |
| | Key Indicator – 1.3 Curriculum Enrichment (40) | |
| Metric No. | | |
| 1.3.1 | <i>Institution integrates crosscutting issues relevant to Gender, Environment and Sustainability, Human Values, Health Determinants, Right to Health Issues, Emerging demographic changes</i> | |

and Professional Ethics in the curricula

Q/M

Response to be provided within 500 words

Institute through its curricula sensitizes students to be aware and proactive in Gender, Environment awareness, Human values, Health Determinants, Right to Health Issues, Demographic changes and Professional Ethics.

1. **Gender:** MGMIHS has a conducive environment for gender equity, amply reflected in composition of students and staff in Male: Female ratio. **MGM Aurangabad has secured 5th position for gender parity in India Today Survey.** Active measures include:
 - Gender Sensitization in Curricular/Co-Curricular Activities
 - Topics on gender-related issues and sexuality are included in **UG Curricula.**
 - Modules for integrating gender in medical education prepared by CEHAT, MUHS and DMER have been adopted in UG Curricula. Our faculties have contributed for preparation of these modules.
 - **Value-added course on Gender Sensitization** is regularly conducted.
2. **Gender Champions:** Gender Champion Committee has been constituted as per directives of MHRD. Student Gender Champions are responsible leaders who facilitate a gender-sensitive environment within their institutes.
3. **Gender equity promotion activities:** Workshops, Essay-writing, Skits, Role-plays, Slogan writing and Open house discussions. Every year, interactive sessions on woman empowerment are organized on International Women's day.
4. **Environment and Sustainability:** Institute is implementing environmental studies module as per UGC guidelines, comprising of ecosystem, biodiversity, environmental pollution, social issues, human population and environment.
 - Our Students won the **Swachh Bharat Summer Internship Award** in 2018 at State level. MGM Medical College Navi Mumbai, has been awarded **Swachh 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 on one tree initiative of UGC for inculcating the importance of green campus.
 - The MOUs are done with NGOs for tree plantation on nearby barren lands.
5. **Human values:** During Internship students are posted in rural health centre and are assigned families/Houses for health care and maintain family folders. It helps in understanding socioeconomic, environmental and cultural aspects of healthcare and gives opportunity to develop empathy, communication skills, holistic approach to health & disease.
 - POISE (Pursuit of Self Excellence) 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.
 - Efforts for inculcation of Gandhian values amongst staff & students.
 - Inclusion of topics like Professionalism and Doctor-Patient relationship.
 - MGMIHS got prestigious Heartfulness Organization Award, selected from 1200 participating organisation by Heartfulness international institute at Hyderabad for promoting

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| | <p>wellbeing of staff and students.</p> <p>6. Health Determinants: Biological, Physical, Behavioural & Sociocultural, Environment, socioeconomic condition and Health services are an integral part of curriculum in Community Medicine, Paediatrics, General Medicine courses.</p> <p>7. Right to Health: These issues are addressed in the curriculum and implemented during clinical postings and internships. Patient charter, Hippocratic Oath and white coat ceremony activities are added features.</p> <p>8. Emerging demographic changes: Population pyramid with age and sex distribution is taught. Importance of sex ratio, PCPNDT act and increasing geriatric population is stressed.</p> <p>9. Professional Ethics: MGMIHS has established the Bioethics Unit of UNESCO Chair in Bioethics in 2016. It has incorporated Bioethics in undergraduate & postgraduate curriculum.</p> |
| <p>1.3.4</p> <p>QM</p> | <p><i>Students undertake field visits / research projects / Industry internship / visits/Community postings as part of curriculum enrichment</i></p> <p><i>Response in 500 words</i></p> <p>Professional courses training aims at equipping graduates with skills necessary for working at the ground level with the patients in the community. Curriculum is enriched by incorporating field work, research projects, community settings and industry interfaces.</p> <ul style="list-style-type: none"> • Field Visit: Field visits are mandatory activity of the curriculum. There is defined rural postings at Yusuf Mehrally Center, TARA and PHC, Nere in Raigad District and urban postings at CBD Belapur MGM Hospital, and UHTC, Khopoli for Navi Mumbai campus. For Aurangabad campus, UHTC is at Ajabnagar and RHTC is at PHC Ellora in Aurangabad District. Under Unnat Bharat Abhiyan, a flagship program of MHRD, the Institute has adopted 5 villages- Dhamani, Dodhani, Dehrang, Waghachi Wadi, Tower Wadi, and their hamlets which are under Maldunge group Gram Panchayat of Raigad District in Navi Mumbai and 5 villages- Sindaon, Bhindaon, Shastramuli, Shivgad Tanda, Pardari Tanda in Aurangabad campus in collaboration with the Government of Maharashtra. Baseline Survey has been done in both campuses and future plan of activities has been prepared. Water and Sanitation being the priority, existing toilets in the school were repaired and support for the repairs was provided to community. Youth groups have been formed in the villages and they are being assisted in approaching the training opportunities for income generating schemes. The focus is on maternal and child health activities. School Health checkup is carried out by Medical students. Visits to Healthcare delivery centres: PHC, District Tuberculosis Centre, ART Centre, HFWTC, DHO and Public Health laboratory helps in familiarizing with prevention of disease, practical insight, and actual implementation of National health programs. Visits to water purification plant, sewage treatment plant, medical camps to understand the role of environment, and importance of its preservation for sustainable growth and development. • Research Projects: <ul style="list-style-type: none"> ○ MGMIHS inculcates spirit of enquiry, curiosity in student's mind and provides scientific |

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| | <p>method for exploring.</p> <ul style="list-style-type: none"> ○ UG Students have taken 42 research projects under ICMR-STs. “Plexus” a National level research conference is being organized by the Students every year. ○ Research methodology workshops are part of mandatory induction program for postgraduate students. Students are trained to formulate a research hypothesis, conduct a literature review, arrive at a logical conclusion and write a scientific research paper. Their projects are to be approved by Institutional, Scientific, Ethics and Animal Ethics Committees. ○ Innovative idea competitions are held every year by Incubation and innovation centre. ● Industry visits: Students are visiting different government/private industries like NIN, CCMB, Glaxo-smithkline, Apollo Hospital to get exposed to real working equipments/operations. Thus, bridging the gap of academics and industries. ● Community Postings: Students are posted in community settings – rural/urban setups. They do health check-up and maintain family health folders. They learn social, economic, environmental aspects of health and disease in family setup. ● Internship: Internship is inbuilt feature for UG programs for acquisition of skills. The students are actively involved in treating the patients under supervision. Students maintain logbooks containing skills to be achieved and reflect upon their experiences in field, industry, and community visits & postings. |
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Remarks of Committee:

The curricula are prepared in tune with the health care needs. The Program and Course Outcomes are well-defined. The initiative to start PG programs: MS Traumatology and Surgery and MD Family Medicine is noteworthy. The University has the distinction of having the Prosthetics and Orthotics Unit catering to rehabilitative needs of patients. The Nurse Practitioner In Critical Care initiative deserves special mention. Gender Sensitization activities are an integral part of the curriculum. Inclusion of community engagement for students is appreciated.

Criterion 2:

Response of University:

Key Indicator - 2.3 Teaching - Learning Process (25)

| Metric No. | |
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| 2.3.1 | <p><i>Student-centric methods are used for enhancing learning experiences by:</i></p> <ul style="list-style-type: none"> ● <i>Experiential learning</i> ● <i>Integrated/Inter-disciplinary learning</i> ● <i>Participatory learning</i> ● <i>Problem-solving methodologies</i> ● <i>Self-directed learning</i> ● <i>Patient-centric and Evidence-based learning</i> ● <i>The Humanities</i> ● <i>Project-based learning</i> |
| Q ₁ M | |

- *Role play*

Response to be provided within 500 words

- **Experiential learning:**

- All students are groomed to become competent healthcare personnel so that they are able to practice independently. The training consists of practical applications and patient-centric learning experiences through live case presentations, history taking, physical examination, evidence-based discussions on diagnosis and management. New teaching-learning methods like Peer-assisted learning, Think-Pair-Share, scientific projects, research discussions are irregular practice.
- All constituent units follow Outcome Based or Competency Based Learning. Most faculty members have been trained at MCI nodal center and Medical Education Unit (MEU) of respective colleges under MGMIHS.

- **Integrated / inter-disciplinary learning:**

- Entire curriculum has been designed for vertical and horizontal teaching from formative years. Topics are identified with inputs from internal and external experts in all subjects. Centralized clinical meetings, mortality audits, Clinico- Pathological Correlation meetings are routinely held.

- **Participatory learning:**

- In addition to didactic lectures, Problem-Based-Learning, Think-Pair-Share and feedback at the end of sessions have added much value. Students Led Objective Tutorials (SLOT) and Team-Based-Learning made tutorials interesting. Group discussions, clinical meetings, ward rounds, seminars, quizzes, microteaching, role plays and case discussions, community out-reach activities, health camps, disaster management rescue missions in accidents, floods, cyclones, blood donation and 'Swachh Bharat Abhiyan' are regular features.

- **Problem-solving methodologies:**

- Students present topics on advances in medicine and scientific papers from journals, discussed in presence teachers in small groups. Problem-Based-Learning (PBL) and Case-Based-Learning (CBL) are conducted at OPD and at bed sides.

- **Self-directed learning (SDL):**

- All students maintain log-books on assignments. Procedural skills are taught under directly observed procedural skill (DOPS). They are encouraged for SDL through literature search from e-resources in all streams. MOOC programmes like research methodology and institutional LMS are examples.

- **Patient-centric and Evidence - based learning:**

- Students are rotated in clinical departments and are exposed to OPD, IPD, OT, emergency, traumacare, BLS, ACLS, simulations and pathological laboratories. Topic discussions, bedside clinics, clinical meetings, post call meet, CPC, journal clubs and grand rounds are regular features.

- **The Humanities:**

- All are trained in communication skills, Professionalism, value-based education by incorporating topics of Bioethics like Patient privacy, Autonomy, Confidentiality, Right to

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| | <p>health curriculum. They are sensitized on gender equity, stress management, human rights and health-awareness through community visits.</p> <ul style="list-style-type: none"> ● Project-based learning: <ul style="list-style-type: none"> ○ Students write small research projects and short term projects under expert faculties and also seek ICMR grants. Every year our students are awarded with number of ICMR-STs projects. Those who miss out, but have interesting proposals or are received from other disciplines get funded by MGMIHS. Total 42 ICMR-STs projects have been completed. ● Role Play: <ul style="list-style-type: none"> ○ It is an effective method to inculcate and learn the clinical concepts which helps to promote active learning, critical thinking and communication skills. 'Resident as a teacher' workshops are held for PG students to teach innovative pedagogical practices. Doctor Patient relationships, informed consent, breaking bad news are taught. All our institutions observe World breast-feeding week, ORS week, Tuberculosis day, Swachh Bharat Abhiyan, World Mental health Day, Cerebral palsy day, National nutrition week and adolescent health awareness day are few examples. |
| <p>2.3.3</p> <p>Q₁M</p> | <p>Teachers use ICT-enabled tools for effective teaching and learning process, including online e-resources</p> <p>Response to be provided within 500 words</p> <ul style="list-style-type: none"> ● Teachers in constituent units in medical, nursing, physiotherapy, BPO, biomedical sciences are well versed in applying appropriate information technology in their teaching. ● All are getting trained through the health profession educational units and Medical Education Units in place at both campuses in making own slides for power point presentation in all courses. ● Faculty members are technology savvy in IT at their personal level. ● Class rooms and seminar halls are ICT-enabled. The entire campus is Wi-Fi and broad band internet enabled. ● During presentations, teachers utilize appropriate links to show live videos of demonstration and procedures. All use CDs and DVDs for teaching which are available at respective departments as well as central library. ● Inter-active boards in smart class rooms are in place at all institutions. Provision for video conferencing through Skype is also available. Computer-assisted-learning (CAL) for interesting case-discussions, clinical work, animal experiments is noteworthy. ● The Institution has a webinar system which is a boon in teaching-learning process. Students and faculty benefit from short-term programs of various reputed institutes in country and abroad. <p>They see various online cloud based MOOC programs at their leisure. The MRCP Edinburgh and Massive Open Online Course (MOOC) such as - like coursera.org, SWAYAM, OMNICURIS, Docmode, MCI, INC, UGC resources are popular among students and faculty. Students and faculty</p> |

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| | <p>members utilize e-reference books and journals available in the central library at both campuses. The institute subscribes to on-line databases in order to facilitate students and teachers to access these e-resources.</p> <ul style="list-style-type: none"> • Students are exposed to minimal access surgery and live robotic surgery through Skype. • Students use tablets, android phones for latest scientific information and research out-come for enhancing their knowledge base and in research domain. • Statistical packages like SPSS are available in e-library for teachers, students and research scholars for data analysis. All PG students undergo short training in biostatistics during their induction program soon after admission to respective institutions. • There are 28 E-databases for students and teachers at the central libraries of both campus: African Index Medicus database, BioMed Central, Cochrane Library Databases, Directory of open access Journals (DOAJ), DOCLINE databases, Electronic Journals Library, Freebooks4Doctors, E-Books Directory, Free Medical Journals, Glossary of HIV/AIDS-related Terms, HighWire Press Stanford University, IMEMR database, Medline-Plus, Digital library, MUHS Nashik, NLM Gateway, OMICS International, POPLINE, PubMed, PubMed Central (PMC), Science.gov, Scientific Research, Springer Open, UGC INFLIBNET & Annual Reviews, WHO Library Database (WHOLIS), e- ShodhSindhu, National Digital Library of India (NDL, India), Shodhganga (Digital Repository of Indian Electronic Theses and Dissertations) and Access medicine |
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Key Indicator - 2.5 Evaluation Process and Reforms (40)

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| <p>2.5.4</p> <p>QIM</p> | <p><i>Reforms in the process and procedure in the conduct of evaluation/examination; including Continuous Internal Assessment to improve the examination system.</i></p> <p>Describe examination reforms implemented by the University during the last 5 years with reference to the following within 500 words</p> <p>MGMIHS has introduced reforms in the examination process (Formative as well as Summative assessment) in a phased manner.</p> <p>A. Examination Procedures</p> <ul style="list-style-type: none"> • On-line Paper Setting and moderation • Prevention of Unfair means by Students: 4G Jammers, CCTV cameras installed in and around examination premises, CAP centers for continuous monitoring. • Feed-back Analysis from External examiners: Continuously improve our teaching-learning activities and evaluation mechanism. • Moderation: Re-evaluation of answer books in presence of external examiners for all students securing in between 40–50% and over 75% marks. • Provision of Re-evaluation in place as per UGC advisory with effect from 1.1.2019 <p>B. Process of Integrating IT Automation:</p> <ul style="list-style-type: none"> • Fully automated Examination Management System (EMS) in Place: Online applications from students for University examinations, payment of fees through centralized payment gate-way, online feeding of attendance by colleges. Admit cards downloadable by students after scrutiny by college and MGMIHS. Bar-coding answer books for capturing marks awarded at CAP centers, using sensor- based |
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software directly to university server for result analysis by dedicated software.
 In-house printing of all certificates on high quality, tamper proof, durable, imported papers, with secured maximum security features - logo, students' photo, parents' names, Date of Birth, water marks, QR codes, verifiable from anywhere online.

- **Digital entry of marks at Centralized Paper Assessment Centre:** Answer papers evaluated at CAP centers, using unique software to automatically digitize and upload marks directly from answer books to University server online.
- **Checking Plagiarism:** URKUND software is in place at both campuses to screen PhD and PG dissertations and research papers before submission.

C. Continuous Internal Assessment and their correlation in Summative assessments:

- Formative (Internal) examinations are conducted by respective departments under the supervision of the institutional heads.
- Summative assessment marks are digitally fed by Head of departments which are transmitted directly to university from Dean's office.
- Students' improvement is continuously monitored by their mentors and also intimated to their parents, at Parents-teacher meetings by the respective departments and institutional heads.
- Marks secured in formative and summative examinations continuously analyzed for statistical correlation and feedback is presented before Board of examination.

D. Competency Based Assessment: Clinical/practical skill training methods e.g. DOPS, OSVE, OSCE, OSPE are adopted to make students competent and fit to practice independently

E. Work Place-Based Assessment: Students are assessed on site by their supervisors while posted in OPD, wards, casualty, laboratories, OT, skill laboratories, blood banks and dialysis unit.

F. Self-Assessment: Verbal and MCQs administered to students at end of lectures, discussing ideal answers. Teachers discuss answers script of internal examinations with specific feedback. Xerox copies of answer books are provided for the purpose on request in University examinations. Students are encouraged for self-analysis continually from their own logbooks regularly which are perused by the head of the department and institutional heads.

G. OSCE / OSPE: OSCE, OSPE helped students to improve cognitive function and professional competency. Directly observed procedure skills (DOSP) are practiced in skill training such as BLS, ACLS, NALS, PALS and NRP, internship and induction programs.

Key Indicator - 2.6 Student Performance and Learning Outcomes (25)

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| Metric No. | |
| 2.6.1 | <i>The Institution has stated learning outcomes /graduate attributes as per the provisions of Regulatory bodies which are integrated into the assessment process and widely publicized through the website and other documents</i> |

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| <p>Q_iM</p> | <p>Provide details of the stated learning outcomes for each programme / course as stipulated by the appropriate Regulatory body and the methods followed by the Institution for assessment of the same within 500 words.</p> <ul style="list-style-type: none"> • The Institution has clearly stated POs and COs for all its academic programmes department-wise which is uploaded on the institute website. They are instrumental in achieving the vision, mission and strategic objectives of the university. • The Course Outcomes are designed as per the guidelines of respective Statutory Councils in respect of Medical courses, Nursing, Physiotherapy, BPO and other biomedical sciences. • Concrete mechanisms have been designed and adopted to ensure that the desired outcomes are achieved accordingly to the defined outcomes, program curriculum, teaching-learning methodology and the supporting facilities are designed. • Assessment methodology/ tools are decided keeping in mind of the parameters/ learning outcomes to be measured and due emphasis during delivery of programs as prescribed in course curriculum. Before commencement of academic year, faculty meetings are conducted by each institutions and decisions are taken on the mode of teaching-learning in perspective of POs & COs. • Induction and orientation programmes are conducted for the newly enrolled students at beginning of each academic session. • Course Outcomes and objectives are printed in student handbooks and syllabus in respect of each subject. • Students and teachers are provided with academic calendar, wherein plan for implementation of entire curriculum is specified, providing all learning objectives and outcomes at various levels. • The medical Graduates attributes are as per MCI norms to become a locally competent and globally responsible clinician, leader and a member of the inter-disciplinary health care team, through life-long learning process that is altruistic, ethical and committed to excellence. • The MGMIHS graduate attributes include 1) Dynamic Professionalism 2) Exemplary leadership 3) Effective communication skills 4) Scholarly attitude 5) Element of critical thinking 6) Enthusiasm for research 7) Social commitment and 8) Global competencies. • The Course Outcomes are formulated to make students competent with respect to all domains of learning (Cognitive, Affective, Psychomotor domains). Their assessment is done in formative domain at department level and summative at university level. • Formative assessment methods include internal examinations, preliminary examinations which consisting written (MCQs, SAQs, & LAQs), Viva-voce and practical examinations. Other assessment methods included Quiz competitions, Seminars, Problem based learning, assignments, portfolios and journals. • The students are initiated to scientific research through compulsory dissertation related to their respective fields of expertise under the guidance of their teachers. Also various projects in thrust areas are undertaken. • The students participate at state, national and international levels competitions, debates, paper presentations and quizzes. |
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| | <ul style="list-style-type: none"> • Institutional IQAC and its constituent’s units play crucial roles in communicating curricular changes and the mode of implementation through meetings with the departmental coordinators continuously. • Students are provided with work books, Journals & log books stating the attainment of outcomes and objectives of respective courses. <p>The passing out graduates in various streams are made fit to practice independently with due confidence and skills. Besides professional knowledge they are groomed to play leadership roles in the community, not only in health sector but also in social issues such as gender equity, environmental protection, disaster management and sensitizing people at large on their right to health.</p> |
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Remarks of Committee:
 The university has been proactive in introducing innovative pedagogies. Various T-L methods including PBL, Integrated Teaching, are being conducted across all Units. Use of role plays for training indifferent facets of Humanities is appreciated. The University focuses on blended form of teaching-learning. The IQAC has played a key role in defining the Graduate Attributes. The University has taken cognizance of the feedback given by different stakeholders and introduced relevant examination reforms.

Criterion 3:

Response of University:

Key Indicator - 3.1 Promotion of Research and Facilities (30)

| Metric No. | |
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| 3.1.1 Q ₁ M | <p><i>The Institution has a well-defined Research promotion policy and the same is uploaded on the Institutional website</i></p> <p><i>Provide details within 500 words on the Institutional research promotion policy, assigned budget for research and its utilization, methods for implementation and monitoring.</i></p> |

Key Indicator - 3.3 Innovation Ecosystem (20)

| Metric No. | |
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| 3.3.1 Q ₁ M | <p><i>Institution has created an ecosystem for innovations and entrepreneurship with an Incubation centre, entrepreneurship cell</i></p> <p>Enumerate the initiatives of the Institution on innovation and entrepreneurship and their output (start-ups, incubatees, entrepreneurs) and the available facilities within 500 words</p> <p>Response: MGMIHS has created an “MGMIHS Incubation and Innovation Centre” (MGMIHS-IIC in the year</p> |

2018. This Centre focuses upon unmet needs and imparts thrust to innovation and fulfils the needs of building Entrepreneurial mindset among various stakeholders including students and faculty members.

Vision: Profitable, Low Cost India Specific Technology, Sustainable and Affordable Incubation and Entrepreneurship center.

Mission: Nurture in-house mentors and innovators for promoting research, business and social impact of entrepreneurship.

Institutions Innovation Council (IIC):

- Recognized by **Ministry of Human Resource Development (MHRD), Govt. of India.**
- Council takes up the activities prescribed by MHRD's Innovation Cell (MIC) with a view to inspire encourage and nurture young students by supporting them to work with new ideas.
- Keeping up with the theme, MGMIHS-IIC organized **Atal Ranking of Institutions on Innovation and Achievements (ARIIA) Face book live interaction@MHRD'S Innovation on 30th October 2018**

Innovation Mela:

As an innovation-integrity activity, MGMIHS organized innovation Mela. Providing an opportunity for the students and faculty to showcase their innovative ideas/design/proof of concept/prototype development.

In par with schedule MGMIHS-IIC conducted workshop on IPR, **Idea (51 entries) & Design (28 entries)** Competition under various themes. Successful students received award and merit certificates.

Incubates/Startups through MGMIHS:

Keeping in line with the national policy, institute actively promotes the concept of self-employment among the students. To promote the entrepreneur spirit among students and encourage them to be **job provider**

rather than job seekers. This Centre is well connected with various laboratories of Institutes for basic and applied work with facilities with latest instruments and software is in place. Institute has provision for ICT/e-learning resources/e-journals and high speed internet.

Consultancy/Training/Potential Business

Facilitation, Network of mentors are also part of center functioning. To promote innovative ideas, grants are provided by the institute to test the concept and ideas which the students and faculty conceive.

This initiative has resulted in 9 startups within a span of 3 years in the first phase, namely:

MGM Centre of Human Movement Science: Scientific validation, Training and clinical service in human *movement science*

Gait and full body motion analysis system

Cardiopulmonary fitness testing system

Pedobarography system

Balance Performance Testing Center

MGM Analytical - affordable biomedical devices like

MGM Vacuum Dressing

Portable Biosafety Cabinet

| | |
|------------------------------------|---|
| | <p>Biomol Separator. MGM O & P care Life-Biotech-Technology for Biosciences like MGM Fish Feed Tech, <i>Moringaoleifera</i> Leaf based health drink, anti-diabetic tablet. MGM Fish feed tech Innovation based collaborative product / process developing projects: MGMIHS has collaborated with JugaadFunda LLP for Innovation incubation management platform that enables to establish technology commercialization ecosystem on the campus. It is supporting to build network that is essential for accelerating startups and innovative ideas. Apart from this Samruddhi TBI foundation is knowledge partner incubator (Industry initiated Sec 8 company) with proven success story of nurturing startups. It supports in establishing policies and process driven incubator on campus. In addition, various SOPs/Policies have been developed by the Institute to encourage student and faculty for IPR filing to facilitate credit entitlement for innovation.</p> |
| <p>3.3.2 QIM</p> | <p>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 Response to be given within 500 words MGMIHS has an institutional IPR policy in place which is a prerequisite for successful collaboration between academia and commercialization partners. In order to safeguard the IP and its ownership and to continuously encourage the development of such IP, the Institute has drafted its own intellectual property rights policy. The objective of the Policy is to provide the researchers an atmosphere favourable for research and set forth the guidelines for ownership and commercialization of the IP. Various workshops and talks were organized on the themes of: Intellectual Property Rights (18) Research methodology (21) Good clinical Practice (45) Research Grant writing (4) Industry-Academia Collaborations (26) To strengthen student knowledge by inviting senior industry/health professional to share their rich experience with students & faculties. Faculties and students who in turn are encouraged to participate and attend such workshops in other institutes. Research and Innovation implementation/monitoring: 1. Research Methodology/IPR/Bioethics course The institute has incorporated these courses as a part of their curriculum to emphasize & train young professionals/faculty / student's/research scholars who will be able to design and implement research projects that are relevant in the Indian context. 2.SPSS training To foster the research mind-set for UG/PG/PhD students, the constitute units of MGMIHS conducts induction program which includes a session on Research Methodology and we are conducting special sessions for SPSS software. So far 7 batches of 20 PG students each</p> |

have completed the SPSS training.

3.Linkages, Mou's& Collaborations
 Networking with the public/hospital/industry for research and innovation purposes, has resulted in 108 linkages, MoU's& collaborations and approx. 230 externships and multiple Industry Academia workshops/Industrial visits were conducted for students/researchers in the last 5 years.

4.Extramural projects by students
 At UG level, our Institute encourages Mini-projects/Innovative experiments with an objective to nurture the innovative mind-set of the students and produce future generation researchers. 42 students have received STS projects from ICMR.

With all the awareness created by conducting various workshops and seminars with reference to IPR/Copyright/Trademarks/Design, we have 1 patent granted, 9 published patents, 3 filed and 8 Copyrights published to our credit.

In addition MGMIHS has organized following:

State level - Good Clinical Practice Workshop was organized at MGM Aurangabad on 19th Jan 2017.

National Conference: Quality Benchmarks in Health Science Education was conducted by MGMMC NM on 17-18 Feb 2018

Workshop on Intellectual Property Rights conducted by MGM MC Aurangabad on 28th Sept 2018

Research Methodology Workshop conducted by MGMNBCON, NM conducted on 08-13 Oct 18

National Level Competition For Life Sciences Students conducted by SBS, NM on 20-21 Dec 2018

All the above seminars/workshops were framed based on the guidelines given by regulatory councils like MCI/INC & UGC. Accreditations connected with good clinical practice and also quality and effectiveness of healthcare, etc. were also obtained like **NABH accreditation of hospital, NABL Accreditation of Laboratory services, SIRO for Central Research Facility.**

Key Indicator- 3.5 Consultancy (15)

| Metric No. | |
|-----------------|---|
| 3.5.1 QM | <p><i>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.</i></p> <p>Describe the Institutional policy on IPR and consultancy, implementation strategies (publicizing the expertise, available facilities, training for consultancy etc.) including the revenue sharing formula. The structured training cum capacity building programme with appropriate fund allocation details also to be provided. Response to be given within 500 words</p> <p>Response MGMIHS is dedicated to research, teaching and extension of knowledge for the Healthcare sector. One of the missions is to develop the human intellectual capability and competency through consultancy. Ultimate objective is to evolve research culture at the institute and foster</p> |

research to contribute towards societal benefits.

In view of the ever-changing scenario of research, the efforts undertaken, and the resources expended on the same, MGMIHS has adopted a **Policy on Intellectual Property Rights (IPR) and Consultancy Policy** approved under BOM-53/2018 dtd 19.05.2018.

IPR Policy:

IPR policy relates to the ownership, protection, process of making application for protection of IP and the rights therein, commercial exploitation of IP created by MGMIHS. The share of revenues from Patent/Trademark/Copyrights shall be 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%)

Consultancy Policy:

Encourages staff to undertake consultancy work that shall complement their teaching/research and associated responsibilities. 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.

The revenue sharing formula for consultancy will be as per below mentioned heads:

Head Institute % Inventor %

Human Resource 50 50

Infrastructure Resource 70 30

Laboratory/Instrument/Equipment 70 30

Miscellaneous 70 30

The structured training cum capacity building program for IPR is in place. Sanction of Funds for IPR

specific awareness workshops promoting innovation and entrepreneurship will be supported under the scheme as per details given below: Institute publicizes the available expertise in terms of Human resource, Infrastructure resource & Laboratory/instrument/equipment etc. on its website and updates it regularly. All the researchers/ faculties are encouraged to showcase these facilities at various forums to expand the client base.

Event category Duration Expenses per event

Awareness Campaign 1-2 hours

1-2 days

Rs.10,000/-

Rs. 25000/-

IP Training and Sensitization Programme

1-2 hours

1-2 days

Rs.10,000/-

Rs. 25000/-

| | |
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| | <p>Training of Trainers / IP1-2 days Awareness Programme (Proposed) Up to Rs. 50,000/- Support for awareness programmes in the constituent units will be limited to Rs. 25,000 per Programme. In case more funds are required, separate sanctions shall be obtained. (For program duration minimum 2 hours) All costs related to logistics and speakers including their TA/DA and honorarium will be borne by the institution/organization. The Institute will provide venue/hall in the academic institution. If this has to be arranged by the partnering institution/organization, then additional budget should be requested as per actuals Our endeavors aim to enhance IP & consultancy culture among staffs and students to disseminate knowledge which will spread to a greater interdisciplinary platform.</p> |
|--|--|

Key Indicators - 3.6 Extension Activities (45)

| Metric No. | |
|---|--|
| <p>3.6.3 QIM</p> | <p><i>Number of awards and recognitions received for extension and outreach activities from Government / other recognized bodies during the last five years</i> Describe the nature and basis of awards /recognitions received for extension and outreach activities of the Institution year-wise from Government /other recognised bodies during the last five years within 500 words Response MGMIHS is instrumental in inculcating values and commitment to society through learning activities. This is visible through health screening, multidagnostic camps, health awareness, cleanliness drives through neighborhood community adoption programs, NSS activities and rallies & walkathons. In addition MGMIHS has always stood up to help the needy during any natural calamities like the recent Kerala and Kolhapur floods. In all MGMIHS has organized 2550 community based extension activities within the last 5 years with the participation of staff and students. The various initiatives were recognized on various platforms by government and non-governmental agencies with several awards: 1. MGMIHS received First rank for Swachh Campus Ranking 2019 of HEI's by MHRD. 2. Research and contribution to community services in the field of Tuberculosis Programme has been recognized by Directorate of Health Services of Government of Maharashtra in 2019. 3. MGM Medical college was awarded "Excellence in Community Engagement" by Association of Health Care Provider, India (AHPI) in Global Conclave in 2019 4. Awards Received for Best Hospital and Medical College at Raigad district by Lokmat in 2019. 5. Cleft-lip and cleft palate free Raigad initiative: Recognition of our faculty by Harvard University and Chicago University as a visiting faculty for exemplary work in plastic surgery. 6. MGM Medical College, Navi Mumbai have achieved 3rd Rank in National Swachh Campus Ranking 2018 of HEI's for maintaining, promoting and encouraging the culture of 'SWACHHATA' by MHRD. 7. Outstanding contribution by the institution in Kerala flood relief mission was recognized by State Government of Kerala. 8. World Health Organization selected 2 PG students for improving quality of Measles-</p> |

| | |
|------------------------------------|--|
| | <p>Rubellacampaign in Raigad as monitors in 2018.</p> <p>9.Participation of students in SwachhataSarvekshan in 2018 is also recognized by Panvel MunicipalCorporation. Students of Aurangabad campus have participated in Swachh Bharat Internship toamplify mass awareness on cleanliness and cement the people’s movement and clinched 4 bestintern awards by the MHRD, Government of India.</p> <p>10.National prizes awarded to several students including 1st and 6th ranks in survey on Gandhian Values by Delhi based NGO “Re Think India” in 2018 on the occasion of 150th BirthAnniversary Year of father of the Nation Mahatma Gandhi.</p> <p>11. MGM hospital conferred PanvelBhushanawarded at various forums.</p> <p>12.Awards Received forBest Hospital and Medical College at Raigad district by Shree RamsethThakur SamajikVikas Mandal in 2016.</p> <p>13.The Institute got empanelled in 2012 for MJPJAY, a social security scheme in both the campusesand reached to several thousand referred patients from all Maharashtra districts. Recognizingstandards of services being provided to poor patients, state scheme society awarded the 'A1category' based on select NABH criteria in 2015.</p> <p>14.MGMIHS is being considered as "Green Instituion Mentor" for exemplary performace in waterand sanitation management by Mahatma Gandhi National Council of Rural Education, Hyderabad,MHRD, GOI.</p> <p>To sum up, MGMIHS being a Medical and Health Science institute, has received high credibility amongthe public, government and non-government organizations for their selfless contribution at national andstate level extension/outreach activities.</p> |
| <p>3.6.4 Q1M</p> | <p><i>Institutional social responsibility activitiesinthe neighborhood community in terms of education, environmental issues like SwachhBharath, 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</i></p> <p>Describe the impact of extension activities in sensitizing students to social issues and holistic development within 500 words</p> <p>Response:</p> <p>The institute is having liaison with the community for various programmes among students and facultymembers by promoting their participation in extension / outreach activities.</p> <p>Community Education</p> <p>The medical colleges at both the campuses are having field practice area in Urban settings (UHTC) and Rural settings (RHTC).We are expanding the possibilities for participation and incorporating communityideas through various health camps such as Eye camps, Dental camps, Multi diagnostic, school screening,etc.</p> <p>National Service Scheme:</p> <p>Various awareness camps and health checkup camps for hygiene/sanitation and environmental protectionare taken up under the NSS scheme, Swachh Bharat Abhiyanwhich is implemented through its 2 NSSunits at both campuses since 2018. As an Institute Social Responsibility, we are participating in the ambitious project of MHRD ‘Unnat Bharat Abhiyan’ and have adopted 5 interior rural and tribalvillages in both campusesfor the overall development with efforts of faculties and students, joining handswith government authorities.The impact of extension activities is visible in both the development ofstudents and the community not only in health sector but for the</p> |

care of environment. ***The active participation in Swachh Bharat Abhiyan, Agricultural training, tree plantation drive (10,000 samplings) planted on hill at Phanaswadi, Panvel & Gandheli hills, Aurangabad in collaboration with NGO's*** haven't only created awareness in communities but also a sense of belonging among the students

Free/Subsidized Health Care

The medical college hospitals are committed to provide charity to needy and poor patients and apart from it provide benefit of social security schemes too. With intension of providing Social Security to community the institute got empanelled in 2012 for **Mahatma Jyotiba Phule Jan Arogya Yojana** in both the campuses and treated several thousand referred patients from all the districts of Maharashtra maintaining the high standard of services. During last year we have been empanelled for the flagship program of **Central Government Ayushman Bharat**.

Socio-Economic Development Issues

Exposure to extension and outreach activities sensitize the students towards social issues like gender sensitization, domestic violence, dowry, child abuse, beggars, female child, victims of violence, etc.

MGMIHS has **conducted 2550 extension and outreach activities** over the last five years with the help of an average of **100 students per year**.

Philanthropic initiatives:

1. **Disaster relief:** Students of MGMIHS in the wake of unprecedented floods in Kerala and Maharashtra. MGMIHS provided relief for the disaster stricken state of Kerala & Kolhapur, Maharashtra with the help of a team of doctors, nurses and paramedical staff.
2. **Dr. Dikshit camps,** MGM-Aurangabad hospital conducts regular **Free Plastic Surgery Camp** for cleft lips/palate etc. Beneficiaries on an average being **500-600 per year**.
3. **Cleft-lip and cleft palate free Raigad initiative:** Recognition of our faculty by Harvard University and Chicago University as a visiting faculty for exemplary work in plastic surgery.
4. **Free camps for children suffering with Thalassemia:** More than **50 children** from rural and tribal areas suffering from Thalassemia are receiving regular treatment and guidance free of cost at MGM Navi Mumbai.

To implement various social schemes under Institutional social responsibility, **MGMIHS has spent Rs.**

- **9.8 crore during last 5 years.**

Remarks of Committee:

Various Committees related to Research are in place and functioning effectively. There is a scope for increase in number of publications related to education. The Innovation and incubation Centre has initiated significant number of activities. However, the research Cell should have a critical follow-up of the same for an optimal outcome. The participation of the University in Swachh Bharat Abhiyan campaign along with other social responsibilities is noteworthy.

Criterion 4:

Response of University:

Key Indicator - 4.1 Physical Facilities (20)

| Metric No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|--|-----------------------------------|-----------------------------|-------------------|--------------------------------------|-----------------------------------|-----------------------------|----------------------------|----------|----------|-----------|-------------------------|---------|---------|---------|-------------------------------|---------|----|---------|------------------------------|---------|---------|---------|----------------------------------|--------|----|--------|---------|----|---------|---------|------|---------|---------|--------|------|--------|--------|---------|------------------------------------|--|--|------------------|
| <p>4.1.1</p> <p>QIM</p> | <p><i>The Institution has adequate physical facilities for teaching –learning, skills acquisition etc.</i> Describe the adequacy of facilities for teaching –learning viz., classrooms, ICT-enabled classrooms, seminar halls, facilities for Clinical learning, learning in the community, AYUSH-related learning cum therapy center, well equipped laboratories, Skills labs etc. as stipulated by the appropriate Regulatory bodies within 1000 words</p> <p>Response: MGMIHS is a two campus Deemed to be University, located on 69 acres of land(Navi Mumbai 25 acres and Aurangabad 44 acres. At Navi Mumbai campus the constituent units are MGM Medical college and hospital and other allied units / departments are MGM school of Biomedical Sciences, MGM School of Physiotherapy, MGM New Bombay college of Nursing & MGM Institutes University Department of Prosthetics & Orthotics. At Aurangabad campus units are MGM Medical College and hospital and other allied units / departments are MGM School of Physiotherapy, and MGM School of Biomedical Sciences. All the constituent units of both the campuses have State of Art infrastructure & physical facilities as per norms of respective Statutory Councils.</p> <table border="1" data-bbox="305 940 1344 1598"> <thead> <tr> <th>Name of Institute</th> <th>Navi Mumbai (Built up Area in sq.m)</th> <th>Aurangabad(Built up Area in sq.m)</th> <th>Total Built up area in sq.m</th> </tr> </thead> <tbody> <tr> <td>Medical college & hospital</td> <td>53231.30</td> <td>50050.87</td> <td>103282.17</td> </tr> <tr> <td>School of Physiotherapy</td> <td>1670.63</td> <td>4533.98</td> <td>6204.61</td> </tr> <tr> <td>New Bombay College of Nursing</td> <td>2696.40</td> <td>NA</td> <td>2696.40</td> </tr> <tr> <td>School of Biomedical Science</td> <td>1630.09</td> <td>1072.38</td> <td>2702.47</td> </tr> <tr> <td>Dept. of Prosthetics & Orthotics</td> <td>516.93</td> <td>NA</td> <td>516.93</td> </tr> <tr> <td>Arogyam</td> <td>NA</td> <td>1354.19</td> <td>1354.19</td> </tr> <tr> <td>UHTC</td> <td>2267.54</td> <td>1858.06</td> <td>4125.6</td> </tr> <tr> <td>RHTC</td> <td>674.31</td> <td>464.51</td> <td>1138.82</td> </tr> <tr> <td colspan="3">Total Built up area in sq.m</td> <td>122021.19</td> </tr> </tbody> </table> | | | Name of Institute | Navi Mumbai (Built up Area in sq.m) | Aurangabad(Built up Area in sq.m) | Total Built up area in sq.m | Medical college & hospital | 53231.30 | 50050.87 | 103282.17 | School of Physiotherapy | 1670.63 | 4533.98 | 6204.61 | New Bombay College of Nursing | 2696.40 | NA | 2696.40 | School of Biomedical Science | 1630.09 | 1072.38 | 2702.47 | Dept. of Prosthetics & Orthotics | 516.93 | NA | 516.93 | Arogyam | NA | 1354.19 | 1354.19 | UHTC | 2267.54 | 1858.06 | 4125.6 | RHTC | 674.31 | 464.51 | 1138.82 | Total Built up area in sq.m | | | 122021.19 |
| Name of Institute | Navi Mumbai (Built up Area in sq.m) | Aurangabad(Built up Area in sq.m) | Total Built up area in sq.m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Medical college & hospital | 53231.30 | 50050.87 | 103282.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| School of Physiotherapy | 1670.63 | 4533.98 | 6204.61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| New Bombay College of Nursing | 2696.40 | NA | 2696.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| School of Biomedical Science | 1630.09 | 1072.38 | 2702.47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dept. of Prosthetics & Orthotics | 516.93 | NA | 516.93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arogyam | NA | 1354.19 | 1354.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Total Built up area in sq.m | | | 122021.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Learning Resources:

| Facilities | No. | Area (Sq mt) |
|---------------------|------------|----------------|
| Classrooms | 35 | 3829.01 |
| Demonstration rooms | 35 | 2215.01 |
| Seminar halls | 57 | 593.84 |
| Total | 127 | 6637.86 |

Learning resources:All classrooms, demonstration rooms, seminar halls, bed side teaching rooms are well-furnished and ventilated with all required facilities. Facilities like LAN, LCD, OHP projectors, **Interactive Boards, Smart Classrooms** and sound system are used regularly. The ICT enabled classrooms and learning spaces are available in individual constituent colleges with additional portable facilities to enhance mobility, multiple interaction modes and collaboration. They are optimally utilized not only for routine teaching- learning activities but also for conducting webinars & video conferencing. These physical learning spaces are expanded with wireless connection to access online resources. 53 bedside teaching rooms are available for clinical learning

Facilities for Clinical learning:

Both campuses have fully equipped **NABH accredited hospitals**. OPD services with adequate patients

for clinical learning are available in all specialties & superspecialties. There are 2004 beds for bed side clinical teaching- learning, with 53 bed side teaching rooms in hospitals. The hospitals have well equipped surgical suites for minor and complex surgeries & students get opportunities to learn various types of surgeries.

Learning in Community:

The Department of Community Medicine provides exposure to medical students to the Community setting by adopting family in rural area as well as organizing education visits to different public health department & social Institutes like, Primary Health Centre, SubCentres, DOTs Centre, Shantivan, Leprosy Rehab

Centre in Panvel, Disha Paraplegic Centre in Vashi, District Malaria Office, Health & Family Welfare Centre, District Tuberculosis Office, Public Health Laboratory, Old age Home, observation Home, **Krushividyan Kendra**, Water Treatment plants, Sewage Treatment plants etc. RHTC and UHTC at Navi Mumbai (**Nere, Khopoli**) and Aurangabad (**Ellora, Daulatabad and Ajabnagar**) have all required

facilities for community learning. Both the campuses have adopted five villages under **Unnat Bharat Abhiyan (UBA)** which enables students to engage in learning comprehensive social development in the rural settings. (Navi Mumbai – Dhamni, Dhodani, Dehrang, Tawarwadi, Waghachiwadi) (Aurangabad-Sindon, Bhindon, Sahastramuli, Shivgadtanda, Pardari)

AYUSH-related learning cum therapy center:

Naturopathy- Mahatma Gandhi Mission's Arogyam (1354.19 sq.m) is a holistic health center at Aurangabad campus, having unique facility for prevention, rehabilitation & cure of lifestyle diseases by integrated therapies of Naturopathy, Yoga and Ayurveda.

Arogyam perpetuates positive health and ancient Indian culture and values. 23000 patients have been benefitted by integrated therapies. **There is dedicated OPD services of Indian Medicine in the centre.**

Arogyam has state of art therapies, facilities and infrastructure for treatment of diseases, wellness and fitness of individuals. Students learn various methods of alternative therapy in centre.

CCRYN (Central council for research yoga and naturopathy) under ministry of AYUSH has permitted to start bachelors program in Naturopathy and yogic sciences (BNYS).

Laboratories-

There are total 71 laboratories out of which 42 are student labs, 16 diagnostic/clinical labs & 13 are research labs. Total 18 museums are there in both the campuses. All the laboratories are well equipped with adequate infrastructure to address special challenges in research & advanced training of health professionals.

There are fully equipped **NABL accredited labs** (Navi Mumbai- 525.05 sq. m., Aurangabad- 139.84sq.mt) -with 24 hours' services in both campuses.

Air conditioned **Animal lab (as per CPCSEA norms), Central research lab** are available in both campuses.

Advanced Sleep lab (703.80 sq.m.) with facilities is available in Navi Mumbai campus.

OMICS Research Center of Navi Mumbai (435. 81sq.m) is **SIRO** accredited. Research thrust area is advanced knowledge of protein science, enzymology, metabolic network, natural products chemistry, green synthesis etc.

MGM Centre of Human Movement Science (196.5 sq.m) is an advanced lab, established with support from International Society of Biomechanics, Bio Engineering and Technology Incubation Centre, IIT Mumbai and Cardiff University, UK.

MGM School of Physiotherapy at both the campuses have fully equipped Electro-Therapy & Electro-diagnostic Lab, Therapeutic Gymnasium & Kinesiotherapy Lab, Exercise physiology, Fitness lab and Yoga. Aurangabad campus has **ADR reporting centre recognized by Indian Pharmacopoeia commission for pharmacovigilance.**

Nursing Foundation Laboratory is equipped with different types of mannequins, simulators and essential articles. **Maternal & Child Health Nursing Laboratory** equipped with adult, pediatric and new born mannequins.

Nutrition Laboratory has all required facilities.

Community Health Nursing Laboratory comprises of articles required for home visiting and community field activities.

Skill Lab- Both the campuses have well equipped **skill labs** (Navi Mumbai -169.22 sq.m Aurangabad-372.48 sq.mt) with CPR, Automated External Defibrillator and other advanced mannequins. CPR mannequins are available for BLS training and ALS mannequins, ECG simulators & rhythm generators for ACLS. **AHA & Indian Resuscitation council accredited BLS, ATLS, PALS & ACLS** courses are regularly held for faculty, students, nursing & paramedical staff.

MGM IHS Incubation and Innovation Centre (171.14sq.m) foster the entrepreneurial spirit among students, faculty & other stakeholders. **Institutional Innovation council (IIC)** has been recognized by **MHRD**.

Medical education unit: Both campuses have Medical education unit (MEU (Navi Mumbai- 169.22 sq.m, Aurangabad -372.48 sq.m.) which is converted into departments in 2017 with separate infrastructure & trained faculty .

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| <p>4.1.2 Q₁M</p> | <p><i>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</i></p> <p>Describe the facilities available for sports, games and cultural activities including specifications about area/size, year of establishment and user rate etc., within 500 words</p> <p>Response: MGMIHS nurtures recreational & sports talent amongst staff & students & to achieve this both campuses have excellent infrastructure. Sport complexes are available for indoor (Carom, Chess & Table-Tennis) and outdoor (badminton, cricket, foot-ball, hockey and volleyball) games in both campuses along with athletic track. Olympic size swimming pool is available at Aurangabad campus</p> |
|---------------------------------|--|

- Gymnasium with modern amenities is available.

MGM Aurangabad has signed MOU with Sports Authority of India for training of masters of sports Physiotherapy students. Their expertise is utilized in treatment and rehabilitation of injured students of the campus.

MGM IHS Navi Mumbai Campus

| Sr. No. | Name of Sports Facility | Year of Establishment | Size / Area (sq.m) | User Rate/day |
|---------|-------------------------|-----------------------|--------------------|---------------|
| 1 | Sports ground | 1993 | 8490.56 | 150 |
| 2. | Gymnasiums | 2006 | 100 | 100 |
| 3. | Basketball court | 2018 | 420 | 30 |
| 4. | Volleyball court | 2018 | 162 | 30 |
| 5. | Yoga center | 2010 | 201.59 | 60 |

MGM IHS Aurangabad Campus

| Sr. No. | Name of Sports Facility | Year of Establishment | Size / Area (sq.m) | User Rate/day |
|---------|--|-----------------------|-------------------------|---------------|
| 1 | Olympic Size Swimming Pool Complex (3 in number) | 2012 | 7076.61 | 51 |
| 2 | | | | |
| 3 | | | | |
| 4 | Gymnastic hall | 2015 | 223.27 | 85 |
| 5 | Badminton Courts | 1999 | 829.98 | 32 |
| 6 | Cricket Stadium & ground | 1991 | 38409.26 | 95 |
| 7 | Rifle Shooting | 2004 | 433.02 | 35 |
| 8 | MGM Golf Club | 2012 | 129499 (with 96 holes) | 96 |
| 9 | Lawn Tennis | 2012 | 4230.62 | 72 |
| 10 | Football | 1991 | 4050.00 | 22 |
| 11 | Table Tennis | 1999 | 245.28 | 45 |
| 12 | Basketball | 1999 | 512.75 | 80 |
| 13 | Kabaddi Ground | 1991 | 260.00 | 65 |
| 14 | Kho kho | 1991 | 342.89 | 70 |
| 15 | Volleyball court | 1991 | 324.00 | 77 |
| 16 | Fencing Court | 2015 | 36 | 3 |
| 17 | Judo | 2015 | 260 | 4 |
| 18 | Yoga Centre | 2014 | 408.95 | 100 |

Facilities for cultural activities-

Auditorium-

Navi Mumbai- Air Conditioned Auditorium with state-of-art Audio visual facilities are available in campus. Open theatre is available for cultural activities.

Aurangabad- Aurangabad has two auditoriums and one open theater with state of art Audio Visual facilities. Rukmini and Dyotan auditoriums are well equipped with required facilities.

| Auditorium | Area (sq.m) | Seating capacity |
|-----------------------------------|-------------|------------------|
| Rukmini (Aurangabad Campus) | 975.48 | 852 |
| Dyotan (Aurangabad Campus) | 334.45 | 350 |
| Auditorium (Navi Mumbai Campus) | 464.51 | 300 |
| Open theatre (Navi Mumbai Campus) | 471.39 | 300 |
| Open theatre (Aurangabad Campus) | 343.87 | 300 |

- MAHAGAMI (5176.32 sq.m.) at MGM Aurangabad and RHYTHM (270.48 sq.m) at MGM Navi Mumbai to foster Indian cultural heritage of dance and music.
- Yoga center is available in both the campuses with capacity of 50-100 in batches. A new renovated center, (Arogyam) is being developed as a comprehensive Ayush and Naturopathy facility at Aurangabad campus spread over are 4402 sq. feet.
- Training in traditional dances like Kathak , Bharatnatyam and folk dances are done in MAHAGAMI and training in Vocal, instrumental music and dance are available at RHYTHM.
- The state of the art facilities as shown above are also used by other universities /associations to organize tournaments and cultural events like Endress Hauser Flow Tech Ltd, Dhoot Transmissions, Dolphin Swimming Club, Maharashtra Sports Academy etc

4.1.3

Availability and adequacy of general campus facilities and overall ambience:

QIM

Describe the availability and adequacy of campus facilities such as hostels, medical facilities, toilets, canteen, post office, bank, roads and signage, topography, greenery, alternate sources of energy, STP, water purification plant etc. (within 500 words)

Response:

General facilities and overall ambience at both campuses is vibrant and student centric.

Hostels: There are total 15 hostels (Intake capacity = 3502 students) with 1216 students residing in these. Each room has an area of 70 Sq. feet/student. **Staff Quarters & Guest Houses are available.**

Medical Facilities:

2004 bedded hospitals with facilities of emergency, OPD services of specialty & superspecialty, intensive care units, & pharmacy to provide free treatment to all the stakeholders round the clock.

Toilets

1120 toilets (Navi Mumbai-376, AU-744) and washbasins are available with separate facilities for

girls, boys and staff. These are well lit, clean and ventilated with 24 hours running water. Facilities are also available for physically challenged persons (7 no.)

Canteen: Canteen with total seating capacity of 700 (including both campuses) which remains open from 7.45 am to 10 pm

Courier services.

Banking services: At Aurangabad campus **Standard urban cooperative bank** is available. **ATM** facility is available at both the campuses.

Signage's & topographical maps are available.

Campuses are barrier free for **Divyangjan** (Specially abled) in the form of ramps, railings, lifts etc

Greenery

50% of total area is green with gardens, lawns and plant nursery. Green Campus award was received by Aurangabad campus. MGM Medical College Navi Mumbai was awarded, 3rd rank at National level Swachh campus Ranking 2018 and 1st position in 2019 by MHRD.

Interns from Aurangabad campus received Award for Best Interns under Swachh Bharat Summer Internship programme by the MHRD.

Alternate sources of energy:

Solar system is installed (Units generated Navi Mumbai -51083.60 Aurangabad - 61980.66) catering to around 35% of electricity requirement. Generator facility is available as a backup.

Sewage treatment Plant has facilities for Solid & Liquid waste management.

Solid waste management

Solid waste is managed as per Solid Waste Management Rules, 2016.

At both campuses, solid waste is collected as per standard protocol and segregated into biodegradable and non-biodegradable waste. Biodegradable waste is treated in the compost plant and the compost produced is utilized for maintaining green vegetation in the campus. The non-biodegradable waste is collected by the local Municipal Corporation for safe disposal.

Liquid waste management

At both campuses, liquid waste generated from hostels, hospital and Medical College is treated in Sewage Treatment Plants with output of 2 lac litres/day (Navi Mumbai) and 6 lac litres/day (Aurangabad). The treated water is reused for gardening and sanitary purposes.

Water Purification Plant (Chlorination)

A unique automatic Water Treatment Plant that converts 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.

Additional chlorination is done by fully automatic chlorine dosing system installed in main pump house at both the campuses

Specific **parking area** is available at both the campuses; additionally, **multilevel parking** is available at Aurangabad campus.

Day care facility.

The campus is safe and secured under 24 hours **CCTV surveillance** with well trained security staff.

Fire extinguishers are installed.

Transport facility is available to the nearest station.

Khadicenter is in place at Aurangabad

Key Indicator - 4.2 Clinical, Equipment and Laboratory Learning Resources (30)

Metric No.

**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.

Describe the adequacy of facilities for clinical teaching learning within 1000 words

Response:

Teaching hospitals in both campuses are equipped with all facilities for patient care & clinical teaching -learning as per the norms of Statutory Council.

MGM Hospitals

MGM Hospital Aurangabad is **NABH accredited with 927 beds** & MGM Hospital Navi Mumbai is in process of NABH accreditation 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, Ophthalmology with **Super specialty** like, Cardiology, Neurology, Nephrology, Endocrinology, Cardiovascular Thoracic Surgery, Urology, Paediatric Surgery, Neurosurgery, Plastic surgery, gastroenterology. 70 speciality clinics in both campuses Geriatric OPD & IPD services

Well equipped surgical suites for minor/complex surgeries. Total Operation Theatres are 33 out of which 3 are modular. Average of about 1500 major & minor surgeries are being carried out every month. There are two Central Sterile Service Departments.

Medical, Surgical, Pediatric, Neonatal, Respiratory & Coronary care ICUs are well equipped with multi-para 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. The centre has performed 3 Liver Transplant and 8 bone marrow transplants Dept of Respiratory Medicine is having Specialized services through the DOTS center.

Dept of Dermatology-specialized treatments facility: Platelet rich plasma therapy for hair, Autologous serum skin test & Autologous serum therapy for urticarial, Cryotherapy- for warts, keloid Phototherapy- whole body UVA and UVB for Vitiligo, Psoriasis and various other skin diseases.

Department of Neurology- Successful thrombolysis has resulted 90 % recovery in more than 80

%of cases with acute stroke.

Department of Radiology- Apart from Interventional radiological procedures some special procedures are carotid artery stenting, cerebral sinus thrombolysis, aneurysm clipping, cerebral & peripheral DSAs, CT guided biopsies. Post graduate students assist in procedures & get trained under supervision.

Dept of Orthopaedics- Dept is developing a centre of excellence for treatment of degenerative spine disorders by minimal invasive technique. Dept is also doing microvascular surgeries for plexus repair. Advanced arthroplasty for knee & hip replacement is an asset of Dept.

Dept of Emergency Medicine- MGM Hospital, Navi Mumbai being located on busy highway, gets mass casualty of trauma patients with multiple injuries due to road traffic accidents. Dept has treated more than one lakh of these patients successfully.

MGM Department of Physiotherapy at both the campuses is giving services for treatment & rehabilitation of the patients for patients with musculoskeletal, neurological, community and cardiopulmonary conditions with a well-equipped specialized OPD (Ortho, elctro, Neuro, cardio, community & sports). Dept is also running specialized sports physiotherapy unit

MGM Department of Prosthetics and Orthotics have been playing pivotal role in providing aids and appliances to "DIVYANGJAN" Prosthetic and Orthotic Professional provides service for neuromusculoskeletal disorder, general health and work related disorder such as foot disorders, fractures, sports injuries, disorders due to aging, aesthetic restoration etc. Specialty services like

-Pedorthic, Mobility aids, Cerebral palsy clinic are also there. There is a central fabrication unit in Department with lab for appliances.

Helping hand: a well-known Self-help groups is functional at hospital premises for needy and specially abled patients.

Equipments

Radiology dept is well equipped with all basic radiology services. There are 2 CT machines in Navi Mumbai campus (16 slice & single slice) & 2 CT machine at Aurangabad campus (64 & 128 slice), 2 MRI machines (1.5 & 0.3 Tesla), Digital Subtraction Angiography lab, Mammography (3000 Nova) & Sono-mammography machines.

Cath lab has 2 Philips FD machines.

Respiratory medicine is well equipped with 2 master screen PFT machine and Pentax videobronchoscopes

Ophthalmology department is equipped with high end equipments- posterior chamber like OCT (Optical color tomography), Carl Zeiss Automated Perimetry, OERTLI Phaco, Emulsification (OT), Fundus Camera (Zeiss), Green Laser (Zeiss), OCT (Zeiss), IOL Master (Zeiss), A-Scan, Synoptophore, Applanation, Tonometer, Indirect Ophthalmoscope wireless, Pachymeter, Slit Lamp

(Zeiss), Surgical Operating Microscope (Zeiss) Autorefractometer (Zeiss)

ENT department has 45 degree Rigid Endoscope, Microscope, Pure tone Audiometer, Impedance Audiometer, OAE Machine (Otoacoustic Emission), BERA Machine (Brainstem evoked response Audiometer), Operating Microscope, 0 degree Rigid Endoscope, High Definition Camera, Rigid Pediatric Ventilating Bronchoscope, Microlaryngoscope

Physiotherapy Outpatient Department has electrotherapy equipment like LASER,

Combothrapy Unit inclusive of ultra sound and interferential current therapy, cycle ergometer, stepper, metabolic cart Fitmate, Med Oxygen analyser, Acapella, PEFr meter and Micro respiratory muscle strength meter.

Sleep lab: PSG software: Sandman device (EMBLA S4500), Resmed VPAP (CPAP, AutoCPAP, BILEVEL, ASV).

Laboratories in teaching hospitals:

Fully equipped **NABL accredited labs** with 24 hours services like Flow cytometry (Cytomics Fc500), Chemiluminescence (Cobas e11), Dry chemistry analyser (Vitros 5600) and BacT/Alert 3D60 for blood culture.

FDA approved & NABH accredited blood bank has apart from blood Products Random Donor Platelets, Single Donor Platelet, Fresh Frozen Plasma, Cryoprecipitate are available. Blood bank also provides specialized services like therapeutic Plasma Exchange, Plateletpheresis

Clinical Skill and Simulation Labs with mannequins & simulators

Sleep Medicine and Research lab: This center is in collaboration with the sleep professionals at Penn Medicine, University of Pennsylvania Health System, USA, recognized as one of the leading Sleep Medicine Institutes in the world. Center offers Sleep Physician services, diagnostic testing and treatment options to ensure the best possible patient care.

World Spine Care lab at Navi Mumbai campus has been set up in collaboration with world Spine Europe for treating patients at globally competent level.

MGM Center for Human Movement Science at MGM Hospital, Sanpada, Navi Mumbai is equipped with 12 high end 240 fps optical cameras (Vicon, UK) and three force platforms (AMTI, USA) to measure kinetics and kinematics associated with human movements, plantar pressure analysis system (novel emed and pedar) and 8 channel EMG apparatus to measure muscle activity and step activity monitors.

Clinical teaching-learning facilities-

OPD block: There are 75 cabins for faculty, post graduate students along with separate demonstration rooms for clinical teaching. Each OPD cabin has view box, where students can be shown x rays for learning radiological findings. There are speciality OPDs as well. Clinical demonstration room is attached to each ward for regular bed side teaching. There are 2004 beds for inpatient care. Average daily IPD is 250 with 80 to 85 % occupancy in various wards.

**4.2.2
QIM**

Describe the adequacy of both outpatients and inpatients in the teaching hospital during the last five years vis-a-vis the number of students trained and programmes offered (based on HIMS / EMR) within 500 words.

Response:

The hospitals are equipped with state of the art diagnostic and therapeutic services and are giving efficient services to community.

- Outpatient services are available daily from 8.30 am to 4. 30 pm. Each OPD has separate cabins for faculty members & teaching rooms for clinical teaching-learning in broad & Superspecialities. Highly qualified, committed and competent doctors deliver patient care at most affordable rates. The population below poverty line and other non-affording patients are treated free of cost. Daily OPDs average is 3500 patients.
- Students posted in OPD get excellent exposure of patient management. There are Speciality OPDs (70) run by each department which allow the students to get insight in special problems.
- The super specialty services in Cardiology, Neurology, Nephrology, Endocrinology, Cardiovascular Thoracic Surgery, Urology, Paediatric Surgery, Neurosurgery, Plastic surgery, Interventional Pain Management provide training to students in higher skills.
- School of physiotherapy has separate OPD (Average daily patients 80 – 100) services in hospital catering to Physiotherapy services & teaching learning of students.
- Geriatric OPD caters to need of patients above 60 years. Students get exposure in geriatric care in both OPD & IPD of Dept.
- There are 2004 beds for inpatient care as per requirement of Statutory Council. Average inpatient occupancy is 80 to 85 %. Clinical bed side teaching takes place in various wards in bed side teaching rooms attached to wards to inculcate clinical skills in students. Active participation of postgraduates in management of ward patients round the clock, not only improves their clinical skills but also helps in refining professionalism.
- The hospitals have well equipped surgical suites for minor and complex surgeries. Total Operation Theatres are 33 out of which 3 are modular. 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 in management of acutely ill patients. Post graduate students get hands on training in bed side procedures like central line insertion, endotracheal intubation, mechanical ventilation in these units. They also learn to communicate with relatives of critically ill patients.
- Average 4000 Pathology, Biochemistry and Microbiology investigations and 1000 radiological investigations take place daily basis.

Nursing students -Clinical experience is the core component of nursing education. The students are rotated in different inpatient and outpatient departments of the hospital under the supervision of their faculty. The variety in settings helps nursing students to assess patients,

carry out clinical nursing procedures, assist in various Preventive/diagnostic/ therapeutic procedures, educate patients and their families at the outpatient departments.

The clinical posting allows the students to appreciate the patient as a holistic individual to provide comprehensive nursing care and develop skill to function as a competent Nurse. It further enables the student to learn the ethical, legal, political and economic aspects of health care delivery and nursing practice.

Apart from clinical competence the Post graduate nursing students also learn the organization of health and nursing services which enables them to learn planning, supervision, process of quality assurance and management of nursing workforce for various health care settings during their posting in the hospital.

MGM School of Physiotherapy offers Physiotherapy care to average of 86 patients per day in Out Patient Department (OPD) and 17 patients per day in inpatient department (IPD). Through the clinical postings at various levels of health care system students receive comprehensive clinical training ranging from early detection, prevention of disabilities and management of wide range of musculoskeletal disorders, neurological disorders, cardiovascular and respiratory disorders, women's health related conditions, sports injuries, geriatric health related conditions.

School of biomedical sciences- Students from allied health sciences get adequate exposure during their posting in various Depts of hospital. Dialysis units at both campuses have 24 hours running service for maintenance & emergency dialysis. On an average 80 dialysis (both campuses) take place daily. Students assess these patients & also assist in hemodialysis procedures, which enhances their skills. More than 1000 radiological investigations take place daily. Students of radiology technician course get hands on experience of all these to face challenges of practice as technician in future. Cardiac cath lab & CVTS OT are well equipped with high end machines. Various procedures like angiography, angioplasty, CABG, repair of valvular lesions & repair of congenital heart lesions are done regularly in cath lab & CVTS OT. Average of 7 to 8 procedures per day take place in cath lab. Average 5 cardiac surgery & 5 to 8 A V fistula in a week take place. The students of perfusion technology get trained in all these procedures under supervision of senior faculty members.

All Optometry Intern students and 3 rd yr students are posted in OPD. Every day they examine approximately 55-65 patients and perform various procedures like Vision Assessment, Objective refraction, Subjective refraction, Measurement of Intra Ocular Pressure, Sac Syringing, Operation theatre management, Low vision patient assessment, Squint evaluation, Contact lens assessment, Spectacle dispensing. Perimetry, OCT (Optical Coherence Tomography), Fundus photography, A Scan, these procedures are observed

- Average yearly student- patient ratio is 1:316 for OPD & 1:29 for IPD patients for various UG & PG (Medical Courses). The teaching hospital has consistently seen an increase in

the numbers both in the category of inpatient and outpatient.

- OPD & IPD statistics of last 5 years-

Navi Mumbai

| Year | 2014-2015 | 2015-2016 | 2016-2017 | 2017-2018 | 2018-2019 | Total |
|--------------------|-----------|-----------|-----------|-----------|-----------|---------|
| No. of Inpatients | 42896 | 45481 | 47506 | 49103 | 50695 | 235681 |
| No. of outpatients | 477168 | 507895 | 531161 | 569701 | 607029 | 2692954 |

Aurangabad

| Year | 2014-2015 | 2015-2016 | 2016-2017 | 2017-2018 | 2018-2019 | Total |
|--------------------|-----------|-----------|-----------|-----------|-----------|---------|
| No. of Inpatients | 38004 | 42642 | 44150 | 44605 | 48134 | 217535 |
| No. of Outpatients | 451847 | 402396 | 492315 | 421658 | 414562 | 2182778 |

HIMS Software

- The Hospital Management Software is installed in MGM Medical College-Hospital, Navi Mumbai in the year 2008 by BTS (Former Name of TechAce Software Pvt. Ltd.). It has a total 26 modules.
- The Hospital Management Software is installed in MGM Medical College-Hospital, Aurangabad in the year 2005 by 21st Century Informatics. It has a total 26 modules.
- The HIMS is being upgraded at both hospitals with the new comprehensive software from Suvarna technosoft private limited. Record maintenance of patients, both inpatient and outpatient has benefited from the use of HIMS. Software eased storage of patient data with ready accessibility

of data for research purpose.

Key Indicator - 4.3 Library as a Learning Resource (20)

| | |
|-------------------|--|
| Metric No. | |
| 4.3.1 | <i>Library is automated using Integrated Library Management System (ILMS)</i> |
| Q/M | Describe the Management System of the Library within 500 words |

Response:

The library is automated using the Integrated Library Management System (ILMS)

KOHA: An Integrated Library Management System (ILMS) is a widely used open source library automation software acquired by the Library in November 2016.

| Name of the ILMS software | Nature of automation (fully or partially) | Version | Year of automation |
|---|---|---------|---|
| KOHA: Open Source Integrated Library Management System (ILMS) | Fully Automated | 18.05 | Switch over from Libsys to KOHA:2016 OPAC weblink 14.139.125.221:81 |

Features of KOHA

- It is cost-effective & Secure, Compliant with Global Open Standards with World-wide acceptance & MARC-21 Standards. No Limitation of Data, Users, Fully Web-based Easy to Learn-Use-Administer. The system has In-built Z-39.5 Cataloguing Server & OPAC with capability of creating dynamic web-portal. It is compatible with HTML 5 and CSS. No vendor-lock, Barcode,RFID& EDI. It is fully Customizable & UTF-8 Compliant. Email & SMS notices (Optional) with LDAP integration & Mature global support. The system can be deployed on Local, Central and Cloud servers.
- Customizable item type: The catalog items can be opted as per the preference and requirements of

the individual libraries.

Barcode/ RFID: ILMS KOHA is based on the web browser and it is fully compatible with all kinds of barcode, QR codes, RFIDs and other similar technologies.

User management: The software provides incorporation with systems like LDAP, ActiveDirectory, Radius, and SAML to allow the single sign-on facility for the user's management.

Metadata: KOHA has the potential to generate qualitative metadata. It uses a full-text indexing engine to allow for speedy and authoritative searching of metadata.

Automated overdue notice: Overdue notices are either provided by email or SMS.

Consortia Mode: ILMS can work as multi-branch or single-branch mode in the consortia model.

Offline circulation: KOHA has provision to undertake offline circulations.

Self-Check: KOHA facilitates with the SIP2 compliant self-check-in, check-out machines.

Faceted search: KOHA provides the faceted search results which are classified for its users.

Nature and Extent of Automation: The Library is fully automated using KOHA: ILMS.

All modules of KOHA such as;

- Administration,
- OPAC circulation,
- Patrons,
- Advanced search,
- List, authorities,
- Cataloging,
- Acquisition,
- Serials,
- Reports,

- Tools, etc., are being used extensively for providing automated library and information services to library users.
- It has become possible to automate all the available physical collection of books such as; textbooks, reference, and ancient books, journals including CDs/DVDs. In this software, the user interface is configurable and adaptable with the result, all types of work involved in the library such as; cataloguing, searching, member patron management, an acquisition system, and circulation: issues, returns, and reserves, etc. have been fully automated.

Year of commencement and completion of automation: Library was provided with Libsys. Kohasoftware was installed in 2016 with implementation of complete automation.

4.3.2 Q1M *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*

Provide details of the number of text books, reference volumes and as well as the collection of ancient books, manuscripts etc. in the library within 500 words

Response:

Total number of books and reference volumes are 33740 and 9027 respectively. The ancient books are 112 with 1360 manuscripts.

Central Library, MGM Institute of Health Sciences at Navi Mumbai campus

| Books added yearwise in last 5 years? | 2018 -19 | 2017-18 | 2016-17 | 2015-16 | 2014-15 | From inception to 30th June 2014 | Total Library Holding as on June 30, 2019 |
|---------------------------------------|----------|---------|---------|---------|---------|----------------------------------|---|
| Textbooks | 1385 | 1431 | 1494 | 1070 | 1075 | 27284 | 33740 |
| Reference volumes | 233 | 456 | 494 | 366 | 458 | 7020 | 9027 |
| Ancient Books | 15 | 25 | 24 | 22 | 24 | 02 | 112 |
| Manuscripts | 88 | 118 | 190 | 126 | 211 | 627 | 1360 |
| Special Reports | 13 | 130 | 8 | 25 | 9 | 129 | 314 |
| Other knowledge resource | 255 | 113 | 24 | 36 | 28 | 1156 | 1612 |
| Total | 1990 | 2273 | 2234 | 1645 | 1805 | 36218 | 46165 |

The number of books includes books donated by Alumni in book bank.

Textbooks: The recent editions of textbooks on each subject have been added each year. Multiple copies are available to facilitate the students to borrow them for home reading.

Reference Volumes: 2007 copies of reference volumes have been added during 1st July 2014 to 31st March 2019. For example: (i) *Color Atlas of Family Medicine* published in 2013; (ii) *Atlas of Glaucoma Surgery*, 3 vols. set, published in 2006, and (iii) *Youmans Neurological Surgery*, 4 Vols. set, published in 2011

Ancient Books: Library has 110 titles under this category. Library has collection of ancient books like 3rd and 4th editions of "*Harrison's Principles of Internal Medicine*" published in 1911 and 1926. "*History of India Medicine*" 3 vols. set, published in 1911, 1926 and 1929. Library also has copies of books like *An*

| | | |
|--|--|--|
| | <p><i>English Translation of the SushrutaSamhita</i>, (1911), 3 vols. set, <i>Antiquity of Hindu Medicine</i> (1937); and <i>CharakaSanhita</i>(1877).</p> <p>Manuscripts: During this phase of 2nd cycle, the library has added 733 copies of manuscripts.</p> <p>Repository on literature related to Mahatma Gandhi: Institutes under the umbrella of Mahatma GandhiMission trust always promotes Gandhian philosophy at all levels. Keeping in mind the Gandhian thoughts,the Library has more than 300 books on Mahatma Gandhi which are, treasure troves and rare collection. Afew books entitled (i) <i>India of my Dreams</i>; (ii) <i>My Non-Violence</i>; (iii) <i>Satyagraha in South Africa</i>; (iv)<i>What is Hinduism</i>; (v) <i>Way to Communal Harmony</i>; and (vi) <i>An Autobiography or the Story of MyExperiments with Truth</i>, etc. are in library holdings. Library also has multilingual collection on Mahatma Gandhi. (27 books, each in Hindi and Gujarati, 42 in Marathi and 181 in English).</p> <p>The collection on Mahatma Gandhi can be accessed through OPAC (Online Public Access Catalogue).Since the Library has <i>Open Access System</i> as well, the Collection on Mahatma Gandhi has been organizedin separate section.</p> <p>Bone Library: The unique feature of the library is, bone library which has been developed exclusively forundergraduates to provide them an opportunity for borrowing the parts of human bones for SDL. TheLibrary has 4418 disarticulated bones (axial and appendicular).</p> | |
|--|--|--|

Key Indicator – 4.4 IT Infrastructure (20)

| Metric No. | | Weig htag e |
|-------------------------------|---|-------------|
| 4.4.2 Q _i M | <p><i>Institution frequently updates its computer availability for students and IT facilities including Wi-Fi</i></p> <p>Describe computer availability for students and IT facilities including Wi-Fi with the date(s) and nature of updation within 500 words</p> <p>Response: MGMIHS continuously upgrades its IT infrastructure to facilitate timely and accurate information to all itsstakeholders. Salient features of the IT upgrades done in last 5 yerars are as follows:</p> <ul style="list-style-type: none"> • MGMIHS is well-equipped, connected with Computers/IT for enhancement of the student learningprocess. Backed with 1 Gbps Broadband Line from National Knowledge Network (NKN), theinstitute has been provided round the clock Internet facility with high-speed Optical Fiber and Wi-Fi. All computers and audio-visual equipment are supported by UPS. • The Internet Leased Line of 1 Gbps from NKN gets terminated in the Data Centre. The network isprotected and controlled by Cyberoam CR1500ia Firewall. From the Data Center, the network isdistributed to all constituent units of | 5 |

MGMIHS via 1 Gbps Fiber Uplinks.

- The students are provided with computer facilities for undertaking the academic and co-curricular activities, project and research activities, community outreach programs, collaborative, administrative and financial evaluation activities.
- The computer facility has been provided to each Department/Unit with peripherals and are connected through LAN/Wi-Fi.
- To make T/L effective, Smart Class Rooms have been made equipped with Interactive White Board+ high-end acoustics and AC.
- LCD projectors interfaced with computers have been installed in all the Lecture Halls/Class Rooms to undertake Computer-Aided Teaching/Learning as well as for presentations.
- The admission and examination modules have been made automated. Modules of the Examination Management System is hosted on an in-house dedicated server. The theory/practical evaluation process is automated.
- Training programs are conducted for faculty and postgraduates to make them familiar in the operation of IBM-SPSS installed in MGM Central Library. The program is organized regularly in coordination with the Department of Community Medicine, MGM Medical College, Navi Mumbai.
- 854 computer systems are in the possession of Institutions/Colleges of MGMIHS. The computer system is connected in wired LAN and equipped with upgraded and sufficiently good processors (minimum configuration dual-core processors).
- All OT's are connected to the AV rooms.
- The entire campus is under CCTV Surveillance System.
- Wi-Fi Network is operational in the entire campus of MGMIHS with the collaboration of Reliance JIO.
- Biometric Attendance system is maintained.
- The library and information services activities have been made fully automated using KOHA:ILMS with integrated In/Out system.
- The Web Committee is responsible for the regular maintenance of the Dynamic Website of the Institute as well as its administration.
- The Institution deploys and upgrades the IT infrastructure and associated facilities whenever required. IT Department maintains the record of requirements received from Heads of Departments for implementation according to the budgetary allocations. After seeking the financial approval, quotations are invited followed by their scrutiny based on the configurations, cost, service, etc. The order for procurement is finalized and approved. Routine maintenance of computers, peripherals network devices, servers, etc. are carried out by the staff members of the department of IT

| | | |
|------------------------------------|--|----------|
| <p>4.4.4</p> <p>Q₁M</p> | <p>Facilities for e-content development such as Media centre, audio visual centre, Lecture Capturing System (LCS), etc.</p> <p>Describe the facilities for e-content development such as Media centre, audio visual centre, Lecture Capturing System (LCS) and their optimum usage, etc. (within 500 words).</p> <p>Response: MGMIHS has state of the art media centre with inbuilt Audio-visual facility at its Aurangabad campus. The Media Centre is designed to encourage collaborative learning and interaction & has the resources for developing e-content. The infrastructure includes:</p> <ul style="list-style-type: none"> • Dedicated PC for designing & editing, • High configuration computer system (APPLE) for video editing, • Chroma Studio with Teleprompter, • Radio recording studio, • High Definition video cameras with Tripod and other related resources. <p>Video and Audio Content in an organized form is made available to the media center for e-content development. Center maintains highest Audio/Video quality required for the production of e-content. Centre also provides the Transcription (Text) out of the video spoken by the Teacher and making the text available to the students.</p> <p>Computer is made available to students for research purposes and to gather information from various sites on the internet, online videos and discussion groups. Specialized class rooms with projectors have been designed for “brain-storming” sessions for the students. Details of the infrastructure are as follows-</p> <p>Chroma TV Studio: The chroma TV studio with a production floor area of 10m x 15m and comes fully equipped with:</p> <ul style="list-style-type: none"> • 7 high-definition (HD) video cameras and still cameras for photography. • Teleprompter • lighting rig that is capable of running up to 20kW of lighting units <p>Radio studio: Radio studio at CJMC helps to record audio lectures. Community Radio also helps to deliver the recorded lectures in the form of programme to the masses. Radio studio is equipped with the following equipments:</p> <ul style="list-style-type: none"> • Mixer and Console desk, multiple input sources for CD, computer, telephone, and microphones. • Playback studio and Recording studio, • Transmitter with a capacity of 50 kw <p>Multimedia Laboratory:</p> | <p>5</p> |
|------------------------------------|--|----------|

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| | <ul style="list-style-type: none"> • There are 22 Microsoft Windows PCs in the multimedia production space that are used for both teaching and individual production work. • All computers are equipped with the latest software for print, graphics, and web, audio and simple video production. <p>The Apple I- Mac Lab:</p> <ul style="list-style-type: none"> • The Apple I-Mac Lab is constantly evolving software collection includes Adobe Production Suite, Dreamweaver along with AVID, Final Cut X and Premiere Pro. <p>Preview Theater</p> <ul style="list-style-type: none"> • The Preview Theater can be used for the projection of recorded lectures and also for the video conferencing of the lectures. It includes 4K Projection, 9.2.1 Sound and 125 Seats | |
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Key Indicator - 4.5 Maintenance of Campus Infrastructure (10)

| Metric No. | | Weightage |
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| 4.5.2 Q/M | <p><i>There are established systems and processes for maintaining physical and academic support facilities: (laboratory, library, sports facilities, computers, classrooms, etc.)</i></p> <p>Describe policy details of systems and processes for maintaining physical and academic support facilities within 500 words.</p> <p>Response: The institute has an effective system & process for maintenance of physical & academic support facilities. The infrastructure is well maintained by implementing Standard Operating Procedures for maintenance of physical facilities. There is a dedicated Maintenance Department with expert staff for biomedical, electrical, civil, mechanical, carpentry and plumbing section. Regular scheduling of work with log books ensure optimum usage of facilities.</p> <p>The Maintenance Committee oversees the maintenance and utilization of physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms & other facilities. It is headed by the Head of the Institution who in turn monitors the work of the Supervisor at the next level. The Incharge of maintenance</p> | 5 |

committee has primary responsibility in planning, purchasing, condemning and controlling the use of physical resources under the guidance of the Head of the institution and also conducts periodic checks to ensure the efficiency / working condition of the infrastructure.

Maintenance of infrastructure- Site Office team looks after the regular maintenance of civil works such as furniture repairs, masonry and plaster works, painting, carpentry, plumbing maintenance of rest rooms, approach roads and neatness of the entire premises.

Cleanliness of campus- Adequate in-house staff is employed to thoroughly maintain hygiene, cleanliness of the campus to provide a congenial learning environment. Classrooms, Staffrooms, Seminar halls, Hospital and Laboratories, etc. are cleaned and maintained regularly by Non-teaching staff assigned for each floor. Wash rooms and rest rooms are well maintained. Dustbins are placed at strategic locations. The Green Cover of the campus is well maintained by full-time maintenance staff.

Equipments- Optimum working condition of all properties/ equipment in the campus is ensured through annual maintenance contracts (AMC). The AMC purview includes maintenance of Generator, Air Conditioners, CCTV cameras and Water Purifiers.

- Under Warranty equipment's are maintained by residential engineer of vendors.
- For maintenance of high-end equipment's such as CT Scan, MRI etc. an annual maintenance contract is signed with the authorized agencies/manufacturer only.
- Maintenance labels are placed on equipments, such as date of service & due date of next service.
- Every department maintains a stock register & log book for the available equipment. Proper inspection is done and verification of stock takes place at the end of every year.

Laboratories- All medical equipments are taken care of by Bio medical dept & engineers through AMC. Periodic reporting on requirements of repairs and maintenance are submitted by the HODs to the Head of Institution.

Computers- The IT Department of institutes take care of technical issues related to computers. There is frequent updation of IT facilities. Standard operating procedures are in place for maintenance of IT infrastructure

Safety committee- Maintenance of the campus is monitored through surveillance Cameras

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| | The budget allocated is optimally utilized by staff appointed for maintenance and repairs of civil works. System for proactive planning is in place with Head of the Institute, Maintenance Committee & IQAC working in collaboration for proper maintenance of infrastructure. checks to ensure the efficiency / working condition of the infrastructure. | |
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Remarks of Committee:

The University has adequate facilities for teaching-learning and good quality clinical material. Students are satisfied with the extra-curricular platforms available in the campus. The IQAC should clearly reflect the utility analysis for various facilities in the campus including the Learning Resource Centre, Museums, Gymnasium, etc.

Criterion 5:

Response of University:

Key Indicator - 5.1 Student Support (30)

| Metric No. | |
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| <p>5.1.4</p> <p>QIM</p> | <p><i>The Institution has an active international student cell of the preceding academic year</i> Describe the international student cell activities within 500 words</p> <p>Response: International Student Cell of MGMIHS provides opportunities of exposure and experience in Indian universities and hospitals to students moving in from foreign varsities for Global Health experience. The friendly atmosphere in our campus makes it easy for International Students to settle fast into a homogenous and cosmopolitan culture. Many students from Europe and Asia have benefitted during their training in biomedical sciences and medicine, both in regular programs as well as on short-term observership. The Cell is headed by Director, Staff and Students' Welfare affairs at MGM Institute of Health Sciences, Navi Mumbai.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. To support desirous students of over-seas universities through on-line process of application for short term training and observerships in our hospitals and laboratories. 2. To offer optimal support to these students for visa processing, pay tuition fees and complete police verification process (Registration with Foreign Registration Office: FRO). 3. To provide support through mentorship, language support, accommodations, food, local transport and community participation in health care through our well structured out-reach services. 4. To promote our indigenous students' interest for visiting outside universities for short-term training programs in health science institutions and hospitals. <p>The Process:</p> <ol style="list-style-type: none"> 1. The Student Welfare Cell co-ordinates activities pertaining to International Students for their to and fro movement and co-ordinates with respective constituent institutes both at |

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| | <p>Navi Mumbai and Aurangabad campuses.</p> <p>2. There is tie-up with a private agency 'World Unite' (https://www.world-unite.de/en/internshipsvolunteering/india-mumbai/electives-final-year-rotation-nursing-hospitals.html) to 3. The MGMIHS students' Alumni members abroad have been instrumental in extending information to their over-sea peers.</p> <p>Activities:</p> <ol style="list-style-type: none"> 1. The Cell provides support to the students to apply online for varieties of programs and patients care facilities under MGMIHS. There is provision to provide accommodation to needy students in own Guest House at MGM CBD Belapur campus Navi Mumbai and at international students hostel at Aurangabad campus. 2. Ongoing mentor support, along with the Students Cell helps the international students to blend with the rest of the students and makes their stay on the campus comfortable and enjoyable. 3. The MGM Institutes of Health Sciences International Students Cell disseminated required information through website, pamphlets, railway concession forms, maps of Navi Mumbai, canteen food coupons, bank account forms, etc. 4. MGM Institutes of Health Sciences has a Language facility which is designed to develop language skills of International students in National language Hindi and Local language Marathi. 5. The Cell encourages students Council on the campus to integrate with overseas students, with true spirit of globalization. 6. A student exchange program in Physiotherapy exists between MGM School of Physiotherapy, Navi Mumbai and School of Allied Health Sciences of University of Sydney, Australia for BPT and MPT students of both Universities. 7. A MoU also exists with Kyungpook National University Medical Centre, Korea, Shastri Foundation, Canada and MGMIHS. These linkages contribute to faculty and student development in research and competency skills. facilitate completion of visa formalities, police NOC and Registration as foreign students while in India. |
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Key Indicator - 5.3 Student Participation and Activities (20)

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| <p>5.3.2</p> <p>Q₁M</p> | <p><i>Presence of Student Council and its activities for Institutional development and student welfare.</i></p> <p>Describe the Student Council activities and students' role in Institutional development and student welfare within 500 words</p> <p>Response: Student Councils are constituted in each constituent unit of MGMIHS. The representatives of each council is elected by student voting.</p> <p>Composition of Student Council</p> <ul style="list-style-type: none"> • General Secretary, • Cultural secretary, |
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- Sports secretary,
- Class Representatives (Male & Female) etc.

Objectives:

- To enhance communication between students and parents and institution staff.
- To promote an environment conducive to educational and personal development.
- To promote friendship and harmony among students.
- To represent views of the students on matters of general concern to institution.
- To Contribute in development and design of curriculum

Functions:

- To officially represent all the students in the Institute.
- To identify and help solve problems encountered by students in the Institute.
- To promote and encourage the involvement of students in organizing Institute activities.
- To represent students in all relevant institute committees as like hostel committee, mess committee, IQAC, college council etc.
- To Contribute / Participate in camps / Medical Check-ups to inculcate social values in students.
- To organize Sports and Cultural events for students.
- To celebrate days of importance and participate in various extension activities in co-ordination with NSS

The Student Councils make efforts to connect with the Alumni Association to ensure that the alumni stay connected to the college using social media networking for the development of institute.

Curricular & Extra – Curricular Activities:

- With the guidance from the faculty the Student Council conducts various activities for student welfare such as welcome to incoming students every year, annual art and cultural programs, sports meet, farewell to outgoing students, alumni meet, etc. which also builds peer support and integrity amongst all students.
- All the constituent units conduct an annual festival (Gathering) on both campuses (viz. Anubhuti, Athena, Exstasy, Exuberance etc.) and also a National Undergraduate Scientific Research Conference (Plexus)
- The Council plays an important role to obtain student feedback, adhering to the code of discipline, maintaining hygiene and green environment on the campus and participate in activities of social cause.
- Leading such activities of the Council throughout the year grooms the student personality to evolve as socially responsible, environmentally, economically and culturally sensitive global citizens who can work effectively in a team.
- The Student Councils have toiled to compile the creative abilities of the students by releasing a Student Magazine, which presents student's creative arts e.g. Shodh and Mosaic.
- In addition to planning various cultural and sports events, the student council also

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| | <p>actively participates in activities of Community welfare such as Swachh Bharat Abhiyan, Unnat Bharat Abhiyan, Blood donation drives, Disaster response etc.</p> <ul style="list-style-type: none"> The student council also functions as an active member of the Bioethics committee and help in functioning of the Internal quality assurance cell. <p>The cohesion amongst the students and between the student, faculty and staff members brought about by the Student Council is highly conducive in building the overall healthy atmosphere at MGM Institute of Health Sciences</p> |
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Key Indicator - 5.4 Alumni Engagement (10)

| Metric No. | |
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| 5.4.1 Q _i M | <p><i>The Alumni Association/Chapter (registered and functional) has contributed significantly to the development of the Institution through financial and other support services during the last five years</i></p> <p>Describe the contribution of Alumni Association to the Institution within 500 words</p> <p>Response: Alumni Association of MGMIHS is registered with Assistant Charity Commissioner (302/2018/Raigad). It is an integral component of MGM Institute of Health Sciences which contributes to overall development in academic, research and patient care. It has 7 Chapters, 4 at Navi Mumbai and 3 at Aurangabad campus.</p> <p>VISION: To nurture the culture of participative management through involving all alumni of MGMIHS</p> <p>OBJECTIVES:</p> <ul style="list-style-type: none"> Build an engaged alumni community Create opportunities for the students Building a smooth channel to facilitate flow of resources and opportunities within community Attaining global recognition and exposure for Institute Obtaining alumni insights and feedback in curriculum development <p>Major activities:</p> <ul style="list-style-type: none"> Alumni registrations: <ul style="list-style-type: none"> Till now 3364 alumni registered with association who are spread nationally and internationally in top ranking Universities and in different capacities in health care sector throughout world. The Alumni Association of MGMIHS has collaborated with 'AlmaShines' Technologies Pvt. Ltd for maintaining activities of collaborative learning and growth through |

sharing opportunities with alumni and students of MGMIHS on a common platform.

● **Contribution by Alumni:**

- Alumni have donated an amount of INR 16.45 Lac to association.
- The Alumni Association has donated INR 1,33,000.00 to MGMIHS, out of this INR 1,00,000.00 is made fixed deposit in University bank account. The interest over this FD is used for awarding Gold medals for M.S General Surgery and M.D Pediatrics at MGMIHS convocation.
- The remaining INR of 33,000.00 is being used for development of skills laboratory at MGMIHS Navi Mumbai.
- Alumni have donated 2045 books to MGMIHS library.
- Various other contributions include donations of speakers, mikes, printer, dinner set etc. to departments.
- Student placement and student exchange through alumni guidance has been an integral contribution of Alumni association.

Competitive exams and career guidance: Alumni help in curriculum enrichment by providing their valuable feedback and many guide students on competitive exams and career guidance through guest lectures and one to one interaction during Alumni meets.

- Dr. Nikhil Bhuskute, started Tele-learning for Department of Radiology as PG teaching program on "Musculoskeletal Radiology" and a workshop was conducted on "Musculoskeletal sonography" in February 2018.
- Dr. Anand Singh eminent radiologist from Harvard Medical School, Boston, USA delivered guest lecture on topic "New Advance in Radiology and Cancer Imaging: Towards Precision Medicine", in February 2017.
- Dr. Siddharth Badve guided UG and PG Students of Medical College.
- Dr. Soham Ranade and Dr. Tushar Ranade have conducted Guest Lecture for PG NEET Aspirants and USMLE for undergraduate students respectively.
- Dr. Abhishek Sawant (PT), Physiotherapist associated with BCCI - Conducted Seminar on 'Scope of Sports Physiotherapy' on 21st February 2018.
- Dr. Shamita Rane (PT), Physiotherapist in USA conducted guest lecture on 'Scope of Physiotherapy in India and USA' on 15th Oct 2017.
- Dr. Pooja Dogra (PT), Assistant Professor, Yerla Physiotherapy College, Navi Mumbai interacted with BPT students on Profession and teaching learning experience on 21st Feb 2019
- Mr. Panikar Surya conducted a lecture on dialysis technology for BSc students in 2018.

The Alumni serve as Ambassadors of Institute and the Institute feels a sense of pride in their achievements

Remarks of Committee:

The University has a vibrant Student Council. There is adequate representation of students on IQAC as well as other Institutional Committees. The international participation of students of MGMIHS is appreciated. The award winning performances of students and encouragement for co-curricular and extra-curricular activities reflects the organization culture. The alumni activities can be strengthened.

Criterion 6:

Response of University:

Key Indicator – 6.1 Institutional Vision and Leadership (10)

| Metric No. | |
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| 6.1.1 QM | <p><i>The Institution has clearly stated vision and mission which are reflected in its academic and administrative governance</i></p> <p>Describe the vision and mission of the Institution; nature of governance, perspective plans and stakeholders' participation in the decision-making bodies highlighting the activities leading to Institutional excellence. Response to be provided within 500 words</p> <p>Response:</p> <p>Vision: MGM Institute of Health Sciences (MGMIHS) aims to be a top ranking Centre of Excellence in Health Science Education, Health Care and Health Research.</p> <p>Mission:</p> <ul style="list-style-type: none"> • Students graduating from the Institute will have the required skills to deliver quality health care to all sections of the society with compassion and benevolence, without prejudice or discrimination, at an affordable cost. • As a Research Center, it shall focus on finding better, safer and affordable ways of diagnosing, treating and preventing diseases. In doing so, it will maintain highest ethical standards. <p>The motto of the Trust is based on Gandhian philosophy, <i>"To wipe every tear from every eye"</i>.</p> <p>Academic governance:</p> <p>MGMIHS has a decentralized and participative structure for governance. The statutory bodies of MGMIHS ensure functional autonomy to achieve the excellence in education, research and quality health care.</p> <p>The academic and administrative Governance is functioning through participatory system with statutory bodies like:</p> <ul style="list-style-type: none"> • Board of Management • Academic Council • Board of Studies • Planning & Monitoring Board • Finance Committee <p>Along with non-statutory bodies like</p> <ul style="list-style-type: none"> • Faculties • Board of Examination • Internal Quality Assurance Cell |

- Research and Recognition Committee
- Academic and Administrative Committee
- Grievance Redressal Committee
- Unfair Means Committee

The statutory bodies are comprised of University Officers, Academician and Students. There are Eight Board of Studies and Three Faculties. In addition to this looking at two campuses (350 KM apart) nature has been institute 'Academic and Administrative Committee' has been formulated which takes review of activities each month.

At **college level following committees** for academic and administrative Governance are constituted:

- College Council
- Anti-Ragging
- Prevention of sexual Harassment (ICC)
- College Ethical
- Institutional Animal Ethical
- IQAC
- Grievance Redressal Cell
- Guidance and career Counselling Cell
- Library
- Pharmaco-vigilance
- Student Welfare Cell
- Scientific
- Hostel
- Website
- Research Cell
- Medical Education Unit
- Gender Champion

Major Achievements (2014-2019)

- MGMIHS accredited as Grade 'A' by NAAC.
- NABL Accredited laboratories
- SIRO Accredited Research Laboratories
- NABH Accredited Blood Banks and Hospital.
- NIRF 2019 (University Rank Band 151-200)
- UNESCO Chair of Bioethics Unit (2016).
- MGM Medical College (NM) received 3rd rank Swachh Campus ranking 2018 by MHRD.
- Medical College (NM) received 1st rank in Swachh Campus Ranking 2019 by MHRD.
- The students won 1st position as well as various rankings in national level online survey on Gandhian values by ReThink India Organisation on 150th birth anniversary of Mahatma Gandhi.
- Medical College, Aurangabad is among the top 30 medical college (India Today Survey

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| | <p>2016).</p> <ul style="list-style-type: none"> • It has been conferred the status of Corporate Counsel for Leadership and Awareness Award for its Excellence in Education. |
| <p>6.1.2</p> <p>QIM</p> | <p><i>Effective leadership is reflected in various Institutional practices such as decentralization and participative management etc.</i></p> <p>Describe a case study on decentralization and participative management and its outcomes in Institutional governance within 500 words</p> <p>Response:</p> <p>MGMIHS is an institute based on Quality in Education, Research and Health care. To achieve these goals, the institute has created a system of decentralizing the governance structure for facilitation of decision making for effective outcome.</p> <p>The stakeholders have direct access to participate in the decision making process through various statutory bodies and committees at institute levels, which support the participative management and ownership in all the processes and motivation of the positive outcomes to each of the stakeholder and the sense of involvement prevails at various levels.</p> <p>One of such system on decentralization and participative management at MGMIHS is: Academic and Administrative Committee</p> <p>The MGMIHS has two campuses Navi Mumbai & Aurangabad, which are 350 km from each other. To ensure proper communication between the constituent colleges, learning from each other's experience, getting inspired by best practices adopted by any unit, MGMIHS constituted Academic and Administrative (AA) Committee with the following members:</p> <ul style="list-style-type: none"> • Vice Chancellor (Chairperson) • Heads of constituent Units • Registrar (Member Secretary) • Controller of Examinations • Finance Officer • Medical Director • Director (Research) • Director (Student Welfare) • IQAC Coordinator • Hospital Superintendents • University Librarian • Administrative staff of both campuses • Student representatives |

The said Committee meets on the third Monday of every month and serves as a common platform for both campuses to discuss key issues. Members participate in the meeting and interact via Videoconferencing.

The Vice Chancellor and Registrar, conduct the meeting alternately from Navi Mumbai and Aurangabad.

Agenda:

The agenda for AA Committee meeting is comprised of key issues pertaining to Academic, Administration, Research, Student welfare, Infrastructure, Community Engagement, Patient Care etc. of university and constituent units.

Outcome in Institutional governance:

The AA meeting provides a unique opportunity to all constituent units of MGMIHS (5 at Navi Mumbai and 3 at Aurangabad) as an administrative bridge between the two campuses, thereby fostering a true sense

of healthy competition amongst the Faculty, staff and students with an element of constructive criticism. Some of the positive outcomes of AA Committee meetings are:

1. Successful completion of AISHE and NIRF by all constituent colleges of MGMIHS.
2. Successful completion of NABH Inspection of MGM Hospitals.
3. NAAC SSR and AQAR preparation and coordination
4. Effectiveness of Anti Ragging and Internal Complaint Committee
5. Feedbacks Analysis all stakeholders
6. Tree Plantation and Green Audit
7. Installation of KOHA at both campuses
8. Increase in number of Value Added Courses
9. AECC (Ability Enhancement Compulsory Courses)
10. Research methodology and SPSS workshops
11. PG Log book and Six monthly progress report
12. Induction program for all UG/PG Program
13. Alumni Engagement
14. Kerala relief operation during calamities
15. Adoption of Villages under UBA and activities
16. Implementation of UGC quality mandate

The administrative challenge have been converted into a unique opportunity for a dynamic, transparent work culture, fostering a sense of belonging amongst faculty and students

Key Indicator – 6.2 Strategy Developments and Deployment (15)

Metric No.

6.2.1***The Institutional Strategic plan is effectively deployed.*****Q_iM**

Describe the methodology adopted for developing the strategic plan; the mechanisms for its deployment and the monitoring and assessment of the deliverables within 500 words

MGMIHS strives to reach the pinnacle of excellence in health science education through realistic planning and implementation by the compassionate management, realizing the goals and objectives as per Vision and Mission.

Strategic Plan: The strategic plan developed by the university IQAC incorporates Academics, Administration, Research, Student Welfare, Social Commitment, Patient Care domains with following goals:

- Short-term (3 Years)
- Intermediate (7 years)
- Long-term (12 years)

It takes into consideration, the suggestions given by the faculty and other stakeholders at the department level, Heads of Departments and Institutions through different Institutional committees. These committees operate in their respective domain represented by all the stakeholders and have expertise in need assessment, resource identification and allocation, which has resulted in Strategic plan document 2030.

IQAC has also taken inputs from National Experts, statutory bodies, NAAC Peer Team Report (2014) and its recommendations, AAA Committee recommendations (2018), UGC Review Committee (2017), 3/18/2020 85/119 Sustainable Development Goals (United Nations), Planning and Monitoring Board recommendations and National policies. All the proposals in the plan were scrutinized for their necessity, feasibility and cost effectiveness for the students as well as the society by the Board of Management and then they were approved.

Effective Deployment of Strategic Plan

| 3 years | 7 years | 12 years |
|--|--------------------------|--|
| Wellness Counseling Centre for Fitness, Yoga, Diet, Exercise | Cadaveric Laboratory | Increase the quantum of collaboration with ICMR, DBT, DST and other national health programs |
| Starting of M.Sc. Nursing program with specialty like Child Health, Mental Health, Community Health, and Gynecological nursing | Sport Physiology Centre. | To enter into MOUs with the health care industry regarding research projects. |
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| MCI Nodal Centre | Creating a central registry for Navi Mumbai for Cerebral palsy, Parkinson's disease, Stroke, Respiratory conditions | Add villages and adjunct tribal areas and provide them comprehensive health care free of cost |
| To enhance research publication in MEU | Integration with Pre and Para clinical departments and the department of Pediatric Surgery. Satellite OPD's in identified villages periodically | Partner with National Rural Health Mission to collectively plan and execute health policies within Raigad and Aurangabad district through UBA |
| Value added courses on BLS, ACLS, ATLS, PALS & NALS | To develop a training centre for Sport Medicine | Expansion of NSS volunteers base for increase penetration in community |
| Making complete Raigad district available for Prosthetic and Orthotic Aids and appliances | Initiate MPO Program with specialized branches like Pedorthic, Lower extremity orthotic, spinal orthotic, upper extremity orthotics and prosthetics | To develop super specialty in Plastic surgery, Urology, GI surgery, Neurosurgery, Nephrology |
| All B.Sc. courses to be upgraded to PG level. | MOU with NGOs, for strengthening welfare activities. | Facilitate student and faculty creativity by fine tuning the ecosystem required to transform ideas into much needed innovations |
| MD (Lab Medicine) | Establish virtual reality units. | Utilize IT tools to enhance efficiency in consistent manner |

IQAC, Academic & Administrative Committee, Planning and Monitoring Board and Board of Management are monitoring and assessing the deployment of strategic plan periodically

6.2.2 Effectiveness and efficiency of functioning of the Institutional bodies as evidenced by policies, administrative setup, appointment and service rules, procedures etc.

Q1M

Describe how the Institution ensures effective and efficient functioning of its bodies and authorities within 500 words

MGMHHS has all the statutory bodies as per the provisions of the UGC regulations/MoA.

The composition of all statutory committees like Board of Management, Academic Council, Faculty, Board of Studies, Finance Committee, Planning and Monitoring Board, Board of Examination, Internal Complaint Committee, Internal Quality Assurance Cell, Anti Ragging, Academic Administrative Audit, Ethics Committee, Research and Recognition Committee, Scientific Advisory Committee etc. are strictly in accordance with the Statutory requirements, which ensures the participation of all stakeholders in effective functioning.

These committees have their meetings as per provision of UGC/University rules and by sending agenda well in advance, recording proceedings of the meetings and action taken report (ATR) for all the resolutions taken. Resolutions are implemented at institute level by various committees ensuring effective

administration through rules and bye-laws in domains like Academic, Administrative, Research, StudentsWelfare, Patient Care and Social Commitments.

The evidence of the effectiveness in the functioning of institutional bodies are reflected in the following Outcomes

Institutional level:

| Category | Committees | Efficiency / Outcome |
|-----------|--|--|
| Academics | <ul style="list-style-type: none">• Curriculum• Timetable• Library• MEU | <ul style="list-style-type: none">• Graduate Attributes• Program/Course Outcomes defined• Learner-centric T-L methods• Communication Skills• Value-Based Education |

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| | | <ul style="list-style-type: none"> • Resident as Teacher Workshops • Six monthly progress reports • Mentorship • Automation of Library (KOHA) Improved User Rate • Innovations in Formative Assessment |
| Research | <ul style="list-style-type: none"> • Scientific • Ethics • Institutional Animal Ethics | <ul style="list-style-type: none"> • Code of Ethics & research promotion policy • Incubation and Innovation Centre/policy • Thrust areas for research • Consultancy, Plagiarism Policy • Research Methodology workshops • Publication Quality Analysis by publication committee • Workshops on GCP, IPR • Increase in extra-mural funding • Increase in patents and copy rights |
| Administration | <ul style="list-style-type: none"> • College Council • Faculty Selection • Grievance Redressal • Internal Complaint Committee-(ICC) • Anti-Ragging Squad / Committee • Hostel • Green Audit • Purchase | <ul style="list-style-type: none"> • Code of Conduct • Service Rules • Staff Welfare Policy • Performance Appraisal Policy • Ragging free campus • Go Green initiatives • NIRF Ranking (150-200) • NABH and NABL Accreditations • Efficient Grievance Redressal mechanism • Gender sensitization |
| Student Welfare | <ul style="list-style-type: none"> • Student Council • Mentorship • Alumni Association • Counseling Cell • Placement Cell • Parent-Teacher Meetings | <ul style="list-style-type: none"> • Increased participation of students in Governance • Strengthened alumni network • Effective Mentorship system • Parents identified as important stakeholders • National Undergraduate Scientific Conference "Plexus" |
| Social Interface | <ul style="list-style-type: none"> • Extension activities | <ul style="list-style-type: none"> • Health education, diagnostic health and blood donation camps • Tree Plantation drives |

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| | | | <ul style="list-style-type: none"> • Participation in Swacch Bharat (duly appreciated by Govt. of India) and Unnat Bharat Abhiyan • Participation in Swachh Bharat Summer Internship & received third Prize at state level. |
| | Hospital | <ul style="list-style-type: none"> • Infection Control • Blood Transfusion • Diet • Mortality Meets • Patient Safety • Pharmacovigilance • Sentinel event • Fire Safety • Radiation Safety | <ul style="list-style-type: none"> • Patient Charter • Prescription and Mortality Audits • Daily emergency services Audit • Safe Laboratory Practices • Accredited MJPJAY scheme for patients |

Key Indicator – 6.3 Faculty and Staff Empowerment Strategies (25)

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| Metric No. | |
| 6.3.1 | <i>The Institution has effective welfare measures for teaching and non-teaching staff and other beneficiaries.</i> |
| QIM | <p>Describe the existing welfare measures for teaching and non-teaching staff and other beneficiaries, within 500 words</p> <p>Response:</p> <p>MGM IHS has a well formulated staff welfare policy in place for awareness and effective implementation of welfare measures at workplace.</p> <p>1. Campus accommodation: The Provision of accommodation on campus is made to ensure the availability of emergency services to medical staff and trainees. Doctors, Nurses, Physiotherapist and maintenance staff are given accommodation for their availability in the campus.</p> <p>2. Transport facilities: University vehicle (Cars = 17/Buses = 12) facility from nearby local railway stations/bus stand to campus is available.</p> <p>3. Leaves: The employees are given leaves as per the regulations. Employee are entitled all kinds of leaves as per UGC Norms along with special leaves as mentioned below:</p> <ul style="list-style-type: none"> • Maternity leave • Paternity leave • Special leaves like On-duty leaves, academic leaves for faculties for research presentation, attending conferences or guest lecture. |

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| | <ul style="list-style-type: none"> • Sabbatical leaves. <p>4. Health care facilities:</p> <ul style="list-style-type: none"> • The Free health-care to all employees in Hospitals alongwith family members is given. • Free diagnostic investigations like MRI, Angiography, CT SCAN & experts consultation to employees & his family members is given <p>5. Financial support</p> <ul style="list-style-type: none"> • Provident Fund and Gratuity. • Financial assistance for attending conferences / workshops • Free-ships and concessions for sons/daughters/wards of MGM employees. • Interest Free Loan • Advanced salary facility • Facilitation of procurement of loans <p>6. Recreation facilities: The campus is equipped with recreational facilities as follows:</p> <ul style="list-style-type: none"> • Cafeterias • Traditional dance class – MAHAGAMI • Music institute –RHYTHM • Recreational social outings like Hurda party. • Crèche facility for children of all employees • All sports complex facilities. <p>7. Research and Training opportunities: The MGMIHS is a research driven organization where clinical care and teaching learning process go hand in hand.</p> <ul style="list-style-type: none"> • Employees are given not only support but also Incentives and Rewards for researchers. • Other than the teaching staff non-teaching staff are also given orientation and training for computer literacy, accounts, soft skills and lifesaving skills. <p>8. Appraisal linked incentives: It appreciates the hard work through timely promotions for deserving teaching and non-teaching staff to create a healthy competition among the employees. The annual performance appraisal is taken and the performance of employees is evaluated. The deserving candidates are promoted with suitable appreciation.</p> <p>9. Miscellaneous:</p> <ul style="list-style-type: none"> • Dress code for class IV employees • Fully equipped Sports complex and Gymnasium • Facilities for Yoga • Subsidized rates for Khadi products at MGM Khadi Centre |
| <p>6.3.5 Q₁M</p> | <p><i>Institution has Performance Appraisal System for teaching and non-teaching staff</i> Describe the Performance Appraisal System adopted for teaching and non-teaching staff, within 500 words</p> |

Response:

The Performance Appraisal policy of MGMIHS is designed for assessing annual performance of all the teaching and non-teaching staff. The appraisal process is conducted during July to October every year using standardized formats.

Parameters for Teaching Faculty:

- Teaching assignments
- Participation in Education Technology activities
- Contribution to improvement in teaching-learning process through Board of Studies
- Research Projects
- Research Publications
- Books published
- Guest Lectures delivered
- Presentations at Conferences
- Resource person for Workshops / CME / Seminar / Symposium
- Awards / Medals
- Additional responsibilities
- Workload: Teaching (UG and PG), Patient Care, preparation of Learning Resource Material
- Membership / Office Bearer of Professional Bodies
- Any special training undertaken

Parameters for Non-teaching:

- Technical adequacy: Application, Initiative, Punctuality, Neatness, Accuracy
- Leave record
- Relations with superiors, colleagues, society
- Leadership qualities
- Knowledge level
- Work efficiency
- Recommendations

Process of Performance Appraisal:

The performance appraisal process starts with the employee assessing his/her performance (Self-appraisal) and culminates with assessment by Head of Institute. The process is depicted below:

- Self – Appraisal (Part A)
- Head of Unit/Section (Part B)
- Head of Department (Part C)
- Head of Institute/Vice Chancellor (Part D)

The System helps in:

1. **Performance linked incentives:** The incentives are given to the good performance of employee be it teaching or non- teaching. The incentives can be either as promotion or

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| | <p>better profile for the employee.</p> <ol style="list-style-type: none"> 2. Incentives for research facilities: The MGMIHS research policy is defined and promulgated to all teaching employees. Faculty who publish or present a paper or write book and publish, is given the financial support. 3. Institution of Awards: The faculty who perform best in his/her respective discipline is acknowledged and given the appropriate award for his/her contribution to the institute. 4. Involvement in decision making based on proven competencies: The MGMIHS believes in empowering faculties and its employees for better decision making and wisdom. Employees are given the profile and freedom to express their ideas and support the management for upgrading the on-going process of academic, research, administration, patient care etc. The various committees at institute and university level have the representation of employees from different domain and discipline. These employees are selected for these opportunities based on their performances. 5. Assignment of administrative responsibilities to deserving Faculty: Many employees are given the administrative profile in addition to their current profile because of their administrative skills. 6. Monitoring and review of recruitment policies: The performance appraisal system helps to understand the competencies required for employees at different level. 7. Strengthening of teaching-learning strategies: The performance appraisal is also helpful in strengthening the teaching-learning strategies because during the assessment process, the feedback is given for self improvement. The head of institute and Head of department pass these feedbacks has been concerned employee. Moreover, the salient features of the best performer are also serving as a good case study. 8. Disincentives ranging from mild penalties like verbal warnings, memo, paycut to severe penalties like no promotion, demotion, termination |
|--|--|

Key Indicator – 6.4 Financial Management and Resource Mobilization (20)

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|-------------------|--|
| Metric No. | |
| 6.4.1 | <i>Institutional strategies for streamlining of funds and the optimal streamlining of resources</i> |
| QM | Describe the resource streamlining policy and procedures for optimal utilization of resources within 500 words |
| | <p>Response:</p> <p>Funds Mobilization</p> <ul style="list-style-type: none"> • MGMIHS is a self-financing Institution. • The Institute generates adequate funds from internal revenue sources for its operational and capital expenses including expansion. • The major sources of Income are student tuition fees and hospital charges. • Research and Consultancy Funding from external agencies <ul style="list-style-type: none"> ○ Extra mural funding through research projects from National/Government funding agencies like ICMR, DST, DBT, BRNS, etc. |

| | |
|---------------------------------------|--|
| | <ul style="list-style-type: none"> • Industry linkages by way of various MoUs signed • Incentives for faculty have been initiated for taking up research activities and for research funding. • Applying for funding assistance from alumni as well as from philanthropists will be judiciously taken up while ensuring that their vision and mission are in line with that of the Institute. • <p>Optimum Utilization of Resources</p> <ul style="list-style-type: none"> • Budgeting process: All items of revenue and expenditure are judiciously budgeted for each upcoming year. The budget is prepared based on the actual expenditure of previous years and also the expansion requirements. • Budget Monitoring: Internal and external audits, Finance Committee and BoM effectively monitor the optimum utilization of resources. Planned budgets is monitored at the level of Heads, Deans, Finance Officer, Registrar and VC and deviations if any are discussed at the FC and BoM meetings. • Central Purchase Department (CPD): <ul style="list-style-type: none"> ○ The Institute follows a purchase policy by which procurements of materials and services are done through various tendering modes, for which purchase committees are constituted for all Units. In both campuses all purchases of Stationery / Consumables / Cleaning Materials / Chemicals / glassware / surgical material etc. are done centrally through Central Purchase Department. The CPD does the tendering and finalizes both the rates and vendors for each item of material. Individual Units need not now do purchasing thereby saving on purchase costs and time. ○ Justification and approval are required before any purchase. • Cost effective measures: <ul style="list-style-type: none"> ○ Being a two-campus Institute located at Navi Mumbai and Aurangabad, 80% of all meetings are conducted via video-conferencing. This ensures that man-hours as well as travel cost and accommodation cost are saved in a big way. This also helps in making available the concerned staff and officers at their work place for a much larger time. ○ Air-travel is limited to Post-Graduate Examiners. ○ Central scheduling of activities: Careful planning and scheduling is done so that all Research labs, Class room facilities and Sports facilities are shared by all the Units of the campus thereby ensuring that they are utilized to the fullest extent. ○ Old items to be disposed of or given under buy-back would require condemnation. ○ University guest house is utilized for the accommodation of external examiners. ○ Taxi-sharing is promoted for examiners and staff of both campuses. ○ Fleet taxi services are promoted for airport drop and pick-up. |
| <p>6.4.3</p> <p>Q/M</p> | <p><i>Institution conducts internal and external financial audits regularly</i></p> <p>Describe the mechanism for internal and external financial audits conducted by the Institution during the last five years (within 500 words)</p> |

Response:

The Institute has both Internal and external financial audit mechanism in place.

Internal audit is carried out by a Chartered Accountant firm M/s. V.S. Rasal & Associates, Aurangabad streamlined by the Board of Management.

- They conduct Compliance Audit of the institution. The internal audit ensures that the overall system of internal control is working effectively. Weaknesses noticed are reported for necessary correction.
- They conduct an assessment of the adequacy of internal controls in the system. This includes aspects such as:-
 - Proper books of accounts and operation of accounting software are being maintained for timely and accurate reporting.
 - An adequate system is in place to ensure that logistics, works and services are being procured in accordance with proper procurement procedures.
 - An appropriate system of accounting and financial reporting exists, on the basis of which claims are prepared and submitted for reimbursement.
 - Adequate records are maintained regarding assets acquired including details of cost, identification and location of assets.
- It ensures various financial norms are followed in payments made and expenditure incurred.

External audit is carried out by an External Audit Agency (Chartered Accountant Firm) as appointed by the Board of Management.

- It is carried out twice in a year (October /April) and it checks the
 - Expenditure has been incurred in accordance with the framed guidelines, as per established procedures/system;
 - Funds have been utilized within the budgetary provisions and for the purpose for which they were meant;
 - Strong internal controls/checks/systems are in place for monitoring the expenditure;
 - Applicable statutory requirements have been complied with;
 - Proper records have been maintained and documents have been kept in the secured form;
 - All discrepancies/suggestions made in the previous audit report has been complied with;
- The Final Account statements for each financial year are audited by the external auditor.

The Finance Committee considers the audited annual accounts statements, annual and revised budget estimates of consolidated and individual constituent Units and submits its recommendations to the Board of Management for approval.

Key Indicator – 6.5 Internal Quality Assurance System (30)

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|-------------------|---|
| Metric No. | |
| 6.5.1 Q/M | <p><i>Institution has a streamlined Internal Quality Assurance Mechanism</i></p> <p>Describe the Internal Quality Assurance Mechanism in the Institution and the activities of IQAC within 1000 words</p> <p>Response: The IQAC of MGMIHS was established on 21st November 2013 and a full time IQAC Coordinator has been appointed. It has well documented Standard Operating Procedures, with the objective of continuous quality improvement with stakeholder satisfaction.</p> <p>Objectives: To foster a conducive teaching-learning environment with outcome-based benchmarks for improvement of academic and administrative performance of MGMIHS and its constituent institutions.</p> <p>Structure: MGMIHS has evolved a three tiered structure of IQAC:</p> <ul style="list-style-type: none"> • University IQAC • College level IQAC (8) and • Departmental level IQAC (34) <p>Flow of information: Department IQAC submits the data on a monthly basis to the college IQAC. After suitable compilation by College IQAC, the report in the prescribed NAAC format is submitted to University IQAC on a quarterly basis. University IQAC in turn prepares the quarterly report of University which is presented to Board of Management. Recommendations of BOM are sent back to colleges through University IQAC.</p> <p>MGMIHS IQAC composition is as per NAAC Guidelines:</p> <ul style="list-style-type: none"> • Vice Chancellor (Chairperson) • Members from Management (1) • Faculty (7) • Academic / Administrative Officers (6) • UG students (2) • PG Students (2) • Alumni (2) • Society (2) • External Members (2) • IQAC Coordinator <p>Activities :</p> <ul style="list-style-type: none"> • Development and application of quality benchmarks/parameters for various academic |

and administrative activities.

- Dissemination of information on various quality parameters of higher education
- Organization of workshop/seminars on quality related themes and promotion of quality circles
- Documentation of various programmes/ activities including promotion of quality
- Preparation of AQAR and submission on time
- Collection of feedbacks from the stakeholders, analysed there on along with the action taken.
- All events in the institution are undertaken on the advice of IQAC
- Compliance on the recommendations of the NAAC Peer team

All these activities are undertaken by the MGMIHS IQAC. MGMIHS IQAC works in close liaison with respective IQAC at institutional level under the domains: Academics, Research, Student Welfare, Administration, Extension activities and Hospital services.

It has worked extensively to 61stream the **recommendations given by the NAAC Peer Team in 2014**, which is evident in the form of:

- Improvement in infrastructure facilities, research output
- Fostering a culture of Gandhian philosophy amongst faculty and students
- Initiation of new academic programs

Initiatives/Outcomes:

The Initiatives and Outcomes of quality initiatives of the IQAC are:

Initiatives/Outcomes:

The Initiatives and Outcomes of quality initiatives of the IQAC are:

| Domain | Initiatives/Outcomes |
|----------|---|
| Academic | <ul style="list-style-type: none">• Initiation of new Programs• Innovative pedagogies• Formulation of Graduate Attributes |

| | | | | | | | |
|-----------------|---|--|--|----------------|--|-----------------|---|
| | <table border="1"> <tr> <td data-bbox="305 243 516 533"></td> <td data-bbox="516 243 1291 533"> <ul style="list-style-type: none"> • Six monthly progress reports for postgraduates • MGMIHS Bioethics Unit of UNESCO chair established and Bioethics is included in both UG and PG curricula. • 42 value added courses • 17 Fellowship programs • Academic and Administrative Audit (AAA) conducted • Workshop on Pathways to Surgical Excellence and Skills Lab modules • Integrated Teaching </td> </tr> <tr> <td data-bbox="305 533 516 747">Administrative</td> <td data-bbox="516 533 1291 747"> <ul style="list-style-type: none"> • ICT-enabled Governance • Green initiatives • Grievance Redressal Mechanism (SOPs) • Gender sensitization • Feedback analysis • Student Representation on various Committees </td> </tr> <tr> <td data-bbox="305 747 516 982">Student Welfare</td> <td data-bbox="516 747 1291 982"> <ul style="list-style-type: none"> • Student Charter • Structured Induction Programs • Mentorship • Training in Communication Skills • Establishment of Placement Cell • Counseling Cell • Resident as Teacher workshops </td> </tr> </table> <p>• Resident as Teacher workshops</p> <p>Many quality initiatives in relation to Patient Welfare, Faculty Development , Research,extension activities have been materialized in last 5 years due to 62streamlined IQAC mechanism.</p> | | <ul style="list-style-type: none"> • Six monthly progress reports for postgraduates • MGMIHS Bioethics Unit of UNESCO chair established and Bioethics is included in both UG and PG curricula. • 42 value added courses • 17 Fellowship programs • Academic and Administrative Audit (AAA) conducted • Workshop on Pathways to Surgical Excellence and Skills Lab modules • Integrated Teaching | Administrative | <ul style="list-style-type: none"> • ICT-enabled Governance • Green initiatives • Grievance Redressal Mechanism (SOPs) • Gender sensitization • Feedback analysis • Student Representation on various Committees | Student Welfare | <ul style="list-style-type: none"> • Student Charter • Structured Induction Programs • Mentorship • Training in Communication Skills • Establishment of Placement Cell • Counseling Cell • Resident as Teacher workshops |
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| Administrative | <ul style="list-style-type: none"> • ICT-enabled Governance • Green initiatives • Grievance Redressal Mechanism (SOPs) • Gender sensitization • Feedback analysis • Student Representation on various Committees | | | | | | |
| Student Welfare | <ul style="list-style-type: none"> • Student Charter • Structured Induction Programs • Mentorship • Training in Communication Skills • Establishment of Placement Cell • Counseling Cell • Resident as Teacher workshops | | | | | | |
| 6.5.3 QIM | <p><i>Impact analysis of the various initiatives carried out and used for quality improvement</i></p> <p>Describe the process and outcome of the impact analysis, carried out with reference to student performance, teaching learning, assessment process and learning outcomes, research, students and other stakeholder feedback, administrative reforms, financial management etc. within 500 words</p> | | | | | | |

Response:

IQAC has identified domains for quality improvement and undertaken quality initiatives/activities. summary of the impact analysis of these initiatives is depicted in the following table:

| Domain | Issue | Activity/Initiatives | Impact |
|----------------------------|---|--|---|
| Student performance | <ul style="list-style-type: none">• Slow performers and high achievers | <ul style="list-style-type: none">• Remedial measures• Mentorship• Peer-Assisted Learning• Parent-Teacher meetings• Student feedback• Co-curricular opportunities. | <ul style="list-style-type: none">• Improved 98%• Improved Participation at conferences / workshops / events |
| Teaching –Learning | <ul style="list-style-type: none">• Mode of content delivery• Attendance• Recent trends in T-L process• Psychomotor skills | <ul style="list-style-type: none">• Workshops for Faculty: innovative T-L methods• Induction programs for students• Bioethics into curricula• Skill-Lab activities• Academic Audit• Feedbacks from stakeholders | <ul style="list-style-type: none">• CBCS Curriculum• Implementation of student-centric T-L methods• Opportunities for hands-on training |
| Assessment Process | <ul style="list-style-type: none">• Examination | <ul style="list-style-type: none">• Workshops on | <ul style="list-style-type: none">• Comprehensive |

| | | | | |
|--|-------------------------------------|---|--|---|
| | <p>and learning outcomes</p> | <p>Pattern</p> <ul style="list-style-type: none"> • Objectivity in assessment • Defining learning outcomes | <p>mechanics of paper setting</p> <ul style="list-style-type: none"> • SOPs for Formative Assessment • Defining Program and Course Outcomes • Paper discussion sessions for students | <p>academic schedules as per defined program / course outcomes</p> <ul style="list-style-type: none"> • Feedback mechanism for student performance • OSCE / OSPE, Portfolios, DOPS • Improved scores due to objectivity • Improved communication skills |
| | <p>Research</p> | <ul style="list-style-type: none"> • Effective research output in terms of relevance and quality • Extramural funding • Collaborations | <ul style="list-style-type: none"> • Workshops on Research Methodology, IPR, Industry-academia lectures • Sessions on Plagiarism Policy • Guest lectures on scientific writing • Establishment of Innovation Incubation council (IIC) • Promotion of UG/PG research culture • Upgraded research laboratories | <ul style="list-style-type: none"> • Identification of thrust areas for research • Inter-disciplinary research • 1 Grant, 9 published patents, 8 copyrights • Increase in number of indexed research publications • Initiation of start-ups • Increase in extramural grants • Effective industry-academia collaborations/MOUs • More participation of UG students in ICMR-STs program (41) • University research policy • Awards and recognitions received by students/faculties/departments. |
| | <p>Administration</p> | <ul style="list-style-type: none"> • Automation • Grievance | <ul style="list-style-type: none"> • Library and examination section | <ul style="list-style-type: none"> • E-governance • Improved library |

| | | | |
|---------------------|---|--|--|
| | <ul style="list-style-type: none"> redressal • Staff Appraisals • Governance reforms • Team-building • Upgradation of infrastructure | <ul style="list-style-type: none"> automation • Go Green initiatives • Online portal for grievance • Revisions in appraisal policy • Administrative Audit • Smart Classrooms | <ul style="list-style-type: none"> user rate • Lesser time for declaration of university examination results • Increased participation of stakeholders in governance • Accreditations and NIRF participation |
| Finance | <ul style="list-style-type: none"> • Bank reconciliation • Purchase procedures • Payments and receipts • Statutory payments | <ul style="list-style-type: none"> • Bank reconciliation mandatory – monthly and weekly • Purchase procedures (SOPs) • Online Fee collections • Software is installed for payment of all taxes. | <ul style="list-style-type: none"> • Errors and omissions are immediately traced. • All purchases are streamlined • Clean accounting, transparency and easy tracking of receipts and payments • Tax payments are on time, interest and penalties are avoided and current dues are up-to-date |
| Patient Care | <ul style="list-style-type: none"> • Diverse patient population • Patient satisfaction | <ul style="list-style-type: none"> • Citizen/Patient Charter • Daily audit of emergency services • Prescription and Mortality Audits • Effective Antibiotic policy • Patients' Feedback | <ul style="list-style-type: none"> • Improved patient satisfaction • Accreditations: NABH, NABL, MJPJAY scheme • Increased opportunities for patient care and learning. |

Remarks of Committee:

The Committee appreciates the decentralized system of Governance. The monthly academic and administrative meetings are a good initiative. The appraisal system is in place. The IQAC established in 2013, has complied with all the recommendations given by the NAAC Peer team in 2014, UGC Review Committee in 2017. Its role in formulating the Vision Document 2030 is noteworthy. The IQAC conducts Academic and Administrative Audits periodically.

Criterion 7:

Response of University:
Key Indicator - 7.1 Institutional Values and Social Responsibilities (50)

| Metric No. | |
|------------------|---|
| | Gender Equity |
| 7.1.1 QIM | <p>Measures initiated by the Institution for the promotion of gender equity during the last five years.</p> <p>Describe gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words</p> <p>Response: MGMIHS has a conducive environment for gender equity, amply reflected in composition of students{Male/Female(M/F) ratio-1:1.75}, teachers (M/F-1:1) and other staff (M/F-1:1.43).</p> <ul style="list-style-type: none"> • There is no gender discrimination in curricular and co-curricular activities. • Equal opportunities are given to both genders; ability and performance are the only criteria for selection to governance committees. • MGM Aurangabad has secured 5th position for gender parity in IndiaToday Survey. <p>Gender sensitization through:</p> <p>1. Curricular activities:</p> <ul style="list-style-type: none"> ○ Admissions: There is no gender discrimination shown in selecting students to any of the Programs. ○ Academic: Topics on gender-related issues and sexuality included in Curricula. <ul style="list-style-type: none"> ○ UG curriculum: Modules for integrating gender in medical education prepared by CEHAT, MUHS, DMER and MGMIHS have been adopted in medical subjects. ○ PG Curriculum: 11 disciplines (Physiology, Paediatrics, Emergency Medicine, Dermatology, Respiratory Medicine, Orthopaedics, Radiology, Forensic Medicine, Obstetrics & Gynaecology, Psychiatry, Community Medicine) ○ Value-added courses on Gender Sensitization and Emotional Intelligence. ○ PhD: PhD is awarded for studies based on Women and child specific initiatives. <p>2. Co-curricular activities:</p> <ul style="list-style-type: none"> ○ Gender Champions <ul style="list-style-type: none"> ○ Gender Champions (students) are responsible leaders who facilitate a gender sensitive environment within the institute. They are selected by Institute Head from various programmes for a one-year term. Various gender sensitization programs are arranged regularly through the Gender Champion Committee. |

- **Gender equity promotion activities`**
 - 40 promotional activities were organized by constituent units including Workshops, Essay-writing, Skits, Role-plays etc. Every year, interactive sessions on woman empowerment are organized for students, faculty, staff and public.

Facilities for women on campus:

a) Safety and security

- Both campuses of MGMIHS are well-demarcated, closed campuses with boundary fencing, well protected and monitored by security guards and CCTV cameras at strategic locations including hostels.
- Internal corridors are well-lit. Public announcement system exists for emergency communications. Helpline numbers for reporting sexual harassment are displayed on notice boards.
- Separate secured hostels exist for girls and boys with full-time Wardens. Female security personnel are deployed at girls' hostels.
- Anti-Ragging Committee contact details are displayed at appropriate locations. These campuses are proved as zero tolerance for ragging.

b) Counseling

- Expert Lectures and workshops on Gender sensitization, and Self-defense training programs are regularly conducted.
- Students are sensitized about Protection of Children from Sexual Offences (POCSO) Act.
- Each student receives personal attention and advice on gender issues through counselling cell.

c) Common Rooms

- There are separate Common Rooms for boys and girls, which are equipped with lockers, and drinking water facilities and washrooms with female security personals for girls' common room.

d) Day care Centre for young children

- Day Care crèche services are available for children of teaching and non-teaching staff.
- Well trained & qualified (pre-school teachers) staff is appointed after police verification and undergo periodic medical & psychiatric check-up.

e) Any other relevant information

- International Women's Day (8th March) & International Day of the Girl Child (11th October) are celebrated.
- Grievance Redressal, Gender Sensitization and Internal Complaints /Prevention of Sexual Harassment Committees are active.
- Faculty and staff are trained in implementation of Vishaka Guidelines.
- Liquor/other addictive substances are prohibited on campus

| Environmental Consciousness and Sustainability | |
|--|---|
| <p>7.1.3 Q/M</p> | <p><i>Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (within 500 words)</i></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 <p>Response: MGMiHS follows standard guidelines for management of degradable and non-degradable waste mentioned as under:</p> <p>Solid waste management</p> <p>Solid waste is managed as per Solid Waste Management Rules, 2016. At Navi Mumbai and Aurangabad campuses, solid waste is collected as per standard protocol and segregated into biodegradable and non-biodegradable waste. Biodegradable waste is treated in the compost plant and the compost produced is utilized for maintaining green vegetation in the campus. The non-biodegradable waste is collected by the local Municipal Corporation for safe disposal.</p> <p>Liquid waste management</p> <ul style="list-style-type: none"> • At both campuses, liquid waste generated from hostels, hospital and Medical College is treated in Sewage Treatment Plants with output of 2 lac litres/day (Navi Mumbai) and 6 lac litres/day (Aurangabad). • The treated water is reused for gardening and sanitary purposes. <p>Bio-Medical Waste management</p> <ul style="list-style-type: none"> • Bio-medical waste is managed as per the Bio-medical Waste Management Rules, 2016. • MGM Medical College, Navi Mumbai is registered with Mumbai Waste Management Limited for disposal of biomedical waste (Registration No: MWM-BMW PAN-1069). Biomedical waste is collected in colour-coded bags and disposed of in accordance with Maharashtra Pollution Control Board standards. • MGM Medical College, Aurangabad is a member of a common Biomedical Waste facility (Registration No WGP/BMW/AMC/03/2017). Maharashtra Pollution Control Board has issued an authorization letter for operating a facility for reception, collection, segregation, and transport of biomedical waste. <p>E-waste management</p> |

- E waste is managed as per the E-Waste Management Rules, 2016.
- At the Navi Mumbai campus, E-Waste (computer accessories, servers, printers, batteries, ACs, refrigerators, telephones, EPABX, Xerox machines, etc.) is segregated as per Institutional orders with a confirmatory disclosure by IT department that items are for disposal. E-waste is disposed of by *Envirocare Recycling Limited* with whom an MOU has been signed.
- At the Aurangabad campus, E-waste is handled under an agreement with *Green e-bin electronic waste solutions* company which disposes of E-waste in an environment-friendly way. E-waste is disposed as per SOP for condemnation and disposal of items to registered E-waste recycling companies.

Waste re-cycling system

- Liquid waste is processed in Sewage Treatment Plant and the treated water is reused for gardening and toilet flush tanks.
- Biodegradable waste is processed for composting and the compost produced is used for gardening.
- A unique automatic Water Treatment Plant that converts 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.
- The Incubation and Innovation Centre of the Institution is working on a project to develop livestock feed from fruit and vegetable waste.

Hazardous chemicals and radioactive waste management

- Hazardous chemicals from laboratories that cannot be reused or recycled are disposed of in an environmentally sound manner as per the standard operating procedure.
- At Aurangabad campus, Effluent Treatment Plant (ETP) for treatment and safe disposal of hazardous chemicals from laboratories is available
- No radioactive waste is generated in campus.
- Radiation levels in Radiology department are monitored and certified to be within permissible limits by authorized Government agency as per the Radiation Protection Rules, 2004.

Inclusion and Situatedness

7.1.8 *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).*

Q₁M

Response:

MGMIHS advocates Gandhian principles of tolerance and harmony in keeping with the words of Mahatma Gandhi to 'Wipe every tear from every eye'. It aims to produce graduates who deliver

quality health care to all sections of society with compassion.

MGMIHS has a multicultural, multilingual student and faculty base hailing from different parts of the country and from different socioeconomic backgrounds. Students hail from 24 Indian states and 6 other countries.

Initiatives for an inclusive environment for students/staff include:

1. **Annual student fests and gatherings:** Students of different communities and backgrounds come together for these activities. Students organise annual Freshers' party for new students, Exuberance, Athena and Xtasy (Navi Mumbai) and Anubhuti (Aurangabad) which are Sports and Cultural Fests, as well as PLEXUS (inter-collegiate National-level Academic conference), MGM Olympiad (sports), Sharang Dev festival (organised by Mahagami dance academy), and establishment of MGM Rhythm Academy, Navi Mumbai. On Trust Foundation Day (20th December), students and staff celebrate the motto 'Aaoujjalakarein'
2. **Cultural and Religious festivals** are celebrated by students and staff, cutting across all faiths and communities. Diwali, Dussehra, Ganesh Chaturthi, Eid, Christmas, Holi, Onam, Navratri and Haldikumkum (Women's celebration) are celebrated.
3. **Patriotic Initiatives:** Republic Day and Independence Day are celebrated by students and staff. The National Anthem is sung at every major function. On "Surgical Strike Day" celebrated on 29 Sep 2018, veterans shared experiences of Kargil and Bangladesh wars. MGMIHS made contribution to *Bharat Ke Veer* Fund, Home Ministry.
4. **National Service Scheme (NSS) activities** expose students to problems of socio-economically deprived populations and serve as a bridge between Institution and community.
5. **Unnat Bharat Abhiyan (UBA) programme of HRD Ministry:** MGMIHS adopted 5 villages each under Navi Mumbai and Aurangabad, affording students an opportunity to work for underprivileged tribal populations. The aim is to alleviate the problems of Water shortage, sanitation, livelihood generation, education and health, with a focus on reducing maternal and neonatal morbidity.
6. **Optional holidays** are availed by employees for unlisted community festivals, based on individual requirements.
7. **MatruBhashaDiwas:** Celebrated to provide platform for expression in Local language/mother tongue and promote community interaction.
8. **International Day of Yoga (21st June)** is celebrated.
9. **Language classes** in Hindi, English and Marathi overcome communication barriers.
10. **Health care and Educational Activities for underprivileged sections:** Active participation by students/staff in the following activities promotes harmony and tolerance towards cultural, regional, linguistic, and socioeconomic diversities.
11. **Regular healthcare camps and educational/counselling sessions** for underprivileged in semi urban and rural areas including schools
12. **Mahatma Jyotiba Phule Jan Arogya Yojana (MJPJAY) and Pradhan Mantri SurakshitMatritva Abhiyan** provide free health care.

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| | <p>13. Community services: DOTS PLUS District Drug-resistant Tuberculosis centre (Navi Mumbai),Thalassemia Day Care Centre (Navi Mumbai) and Tulip Centre (Aurangabad) for breast diseases.</p> <p>14. Collaborations for community benefit:</p> <ul style="list-style-type: none"> • Sports Authority of India, National Training Centre • Aarambh Autistic Centre &Swayamsiddha-governed Viveksingh Special School • GeBBS Foundation, (Cervical Cancer) • NAAM &Yashaswini Foundation: free healthcare to families of farmers who committedsuicide. • District Blindness Control Society: eye donation and cataract surgery. • Maya Foundation: cleft lip and cleft palate |
| Human Values and Professional Ethics | |
| <p>7.1.9</p> <p>Q1M</p> | <p><i>Sensitization of students and employees of the Institution to the constitutional obligations: values, rights, duties and responsibilities of citizens</i></p> <p>Describe the various activities in the Institution for inculcating values for being responsible citizens as reflected in the Constitution of India within 500 words.</p> <p>Response:</p> <p>MGMIIHS follows constitutional obligations both in letter and in spirit. The name and emblem ofMGMIIHS represent dedication to Gandhian values. ‘<i>Social Commitment</i>’ and ‘<i>Exemplary leadership</i>’ areidentified as Graduate Attributes to be achieved by MGMIIHS students.</p> <p>Initiatives for sensitization to rights and duties and inculcating values:</p> <ol style="list-style-type: none"> 1. Cultural harmony <ul style="list-style-type: none"> • Major cultural/religious festivals such as Dussehra, Ganesh Chaturthi, Eid, Diwali,Christmas, Holi, Onam and Navratri are celebrated by students and staff of all faiths. • Students of different backgrounds join to organise festivals including cultural events, sportsand academic activities. 2. Respect to National Flag, National Anthem, symbols of Indian freedom struggle and NationalIntegrity <ul style="list-style-type: none"> • National Flag is hoisted on Independence Day and Republic Day. Tributes to Gandhiji aremade and patriotic songs sung. • Gandhian thoughts are displayed on campus. On Gandhi Jayanti, functions and photoexhibitions are held. • On Gandhiji’s 150th birth anniversary, MGMIIHS student secured first All-India position inSurvey on Gandhian Values by Re-Think India Foundation. • National Unity Divas, Maharashtra Din, Matru Raj Bhasha Divas, National Integration dayand Teachers day are celebrated. 3. Service to the Nation <ul style="list-style-type: none"> • Free health camps, blood donation camps and IEC activities sensitize students |

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| | <p>to community health problems. Supportive appliances were distributed to 520 differently abled individuals. Contribution to <i>Bharat Ke Veer</i> Fund, Home Ministry was made.</p> <ul style="list-style-type: none"> • MGM Kerala Flood Relief Mission conducted 11 health camps, screened 1246 patients, and visited houses for medicine distribution. Appreciations were received from District Collector, Alappuzha and Sevabharati Trust. • Five MGIMHS students held officer posts in Medical Students Association of India in Public Health; Reproductive Health; Human Rights and Peace; and Professional Exchange. • NSS unit of MGMIHS follows the motto '<i>Not me but you</i>' of selfless community service and has 500 student members. • MGMIHS has adopted 10 villages under Unnat Bharat Abhiyan (UBA) programme of HRD Ministry, to work with tribal populations. <p>4. Environmental Preservation</p> <ul style="list-style-type: none"> • Both campuses have won Swachhta awards from MHRD. • Students participate in tree plantation drives and Swachh Bharat Abhiyan, and received awards from MHRD for Swachh summer internship. • MGMIHS encourages carpooling and use of public transport. Daily bus shuttle for students/faculty plies between campus and local railway station. • Campus is a plastic-restricted zone. • 64-hour Ability Enhancement Compulsory Course module on Environment incorporated in UG Curriculum. <p>5. Developing ethical & scientific approach</p> <ul style="list-style-type: none"> • Students are trained to handle patients ethically, maintaining confidentiality and integrity. • MGMIHS Bioethics Unit of UNESCO chair was established in 2016. Bioethics is included in UG and PG curricula. • Workshop on Census data dissemination for faculty and students in 2015. <p>6. Right to Equality & Freedom, Protection against Exploitation, and Constitutional Remedies.</p> <ul style="list-style-type: none"> • Student Gender Champions and Gender Champion Committee are active. Gender sensitisation programmes are held. • Internal Complaint Cell, Grievance Redressal Cell, Anti-Ragging Committee and Student Council are functional. <p>7. Right to Freedom, Freedom of Religion, Culture and Education</p> <ul style="list-style-type: none"> • Student Council provides a platform for students to communicate with faculty/management. • Students are members of IQAC at University level and other committees. <p>All employees are treated equally irrespective of faith/community. Optional holidays are granted for cultural festivals.</p> |
| <p>7.1.11 QIM</p> | <p><i>Institution celebrates / organizes national and international commemorative days, events and festivals</i></p> |

Describe the efforts of the Institution in celebrating /organizing national and international commemorative days, events and festivals during the last five years within 500 words

Response:

MGMHHS strongly believes that it is paramount to preserve and protect our national identity and culture by increasing awareness in young students about our glorious heritage. The leaders of the Indian freedom struggle played a great role in developing national strength and unity and left us the invaluable legacy of a free, democratic India. Our country has several eminent personalities whose vision has propelled us into becoming a nation which is hospitable to all communities and religions, setting an example to the rest of the world for Unity in Diversity.

At MGMHHS, students are sensitized about significant landmarks in Indian history to inculcate a sense of national pride and patriotism. International days of significance are also celebrated to produce students who are responsible and conscientious world citizens.

For all the following commemorative days and festivals, **celebratory functions with speeches and talks are held** by students and staff. Additional activities are indicated as relevant.

- **Independence Day (15th August)**
- **Republic Day (26th January)**
- **Birth anniversary of Mahatma Gandhi (2nd October):** Tributes are offered to the statue of Mahatma Gandhi. Students conducted an exhibition and skit and made a movie on Gandhian values which was sent to HRD Ministry.
- **National Unity Divas (Rashtriya Ekta Diwas) (31st October):** Outreach activities including education of Anganwadi staff, Healthy Baby & Mother competitions, screening camps, and exhibitions.
- **National Festivals: Diwali, Pongal, Navratri, Guru Purnima, Christmas** are celebrated by constituent institutions.
- **Teacher's Day (5th September)**
- **Ambedkar Jayanthi (14th April)**
- **International Women's Day (8th March) & International Day of the Girl Child (11th October)**
- **Children's Day (Bal Diwas) (14th November):** Functions include Healthy Baby competitions.
- **World Health Day (7th April):** Quiz for students, walkathon, talks on WHO theme of the year.
- **World Physiotherapy day (8th September):** Rally, poster presentation and seminars.
- **Lamp lighting ceremony for nurses** is a tribute to Florence Nightingale and formally declares graduating students' entry into the nursing profession.
- **National Science day (28th February):** Celebrated in the memory of Dr. C. V. Raman.
- **International Day of Yoga (21st June):** Yoga demonstration and training session, and Community counselling on Yoga at local Health Training Centre.
- **Other International Commemorative Days/Weeks:**

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| | <ul style="list-style-type: none"> ○ Eye Donation Week (4th-6th September) ○ World Tuberculosis Day (24th March) ○ World Diabetes day (14th November) ○ World AIDS day (1st December) ○ World Immunisation Week (24th – 30th April) ○ Breastfeeding Week (1st – 7th August) ○ World Cerebral Palsy Day (6th October): student rally in the community ○ World Suicide Prevention Day (10th September): CME programmes ○ World Mental Health Day (10th October): patient and caregiver felicitation, CME, freecamp and quiz for undergraduates. ○ International Day of Persons with Disabilities (3rd December) ○ International Leprosy Day (30th January) ○ World Breast Cancer Day (4th February) ○ World Sight Day (8th October) ○ World Heart Day (29th September) ○ World No Tobacco Day (31st May) ○ World Hospice & Palliative Care Day (10th October) ○ World Cancer Day (4th February) ○ World Thalassaemia Day (8th May) |
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Key Indicator - 7.2 Best Practices (30)

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| Metric No. | |
| 7.2.1 Q_iM | <p>Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.</p> <p>BEST PRACTICE 1</p> <p>Title of Best practice</p> <p>Innovative practice for enhancement of water conservation and sanitation management.</p> <p>Objectives of the practice</p> <ul style="list-style-type: none"> ● To create a “water-secure” campus at MGMIHS ● To establish a unique plant for waste water recycling to augment the supply of potable water ● To have a cost-effective and environmentally sound water and sanitation management practice in the campus ● To improve basic sanitation and water management facilities in rural villages adopted under UnnatBharat Abhiyan (UBA) and Swacchta Action Plan (SAP) <p>The context</p> <ul style="list-style-type: none"> ● India is among the world’s most water-stressed countries. Competition over finite water resources compounded by climate change, will have serious implications for food security, |

farmer livelihood and economic development.

- The campus is dependent for water supply on CIDCO, which is limited. Total water requirement of campus is app. 600 KLD out of which CIDCO supplies 450 KLD. Shortage of 150 KLD is being met by purchasing water from outside (Water tankers). This costs app. 110 lakhs per year. Due to increase in student strength scarcity is proportionally increasing.
- It was decided to achieve a “water-secure” MGM campus to meet the entire requirement of water through in-house resources.
- In addition, solid waste on campus needs to be handled in an eco-friendly manner.
- Rural villages adopted by MGMIHS were found during sanitation survey, to have deficiencies in sanitation and water management, including practice of open defecation.
- MGMIHS took the initiative of setting in place processes to improve water management and sanitation in concerned villages under UBA and SAP.

The Practice

- **Water conservation and Sanitation activities on campus**
 - At Navi Mumbai campus, rainwater is collected in a pond of 24 million litres.
 - A Water Treatment Plant (WTP) has been established to convert rain water (from the existing pond) and grey water (domestic used non-flush waste water which has been diverted into the pond) into potable water fit for human consumption. The processing capacity is 80 Kilolitres per day (KLD).
 - The plant is operational since January 2019.
 - This WTP is unique in many respects and is the first of its kind in India, incorporating energy-saving and space-saving technology with safe and highly efficient processes:
 - The vertical structure of the plant utilises gravity for the flow of unprocessed water.
 - The plant has been designed for automatic operation, requiring only minimal human intervention.
 - For disinfection, instead of Chlorine, it uses AOP (Advanced Oxidizing Process) which is a combination of very high intensity UV radiation with chemical dosing to magnify UV potential in the disinfection process.
 - For residual disinfection, CL02 is used (instead of chlorine) thereby avoiding the generation of harmful by-products like THM and HAA.
 - Space-saving design allows the plant to occupy only 7.5 metres x 11 metres plinth area.
 - Processing cost is only Rs. 0.03 to Rs. 0.035 per litre.
 - This method at WTP is being patented
 - A second plant is being installed to treat an additional 100 KLD.
 - Biodegradable waste is treated by composting.
 - Campus Sanitation Committee monitors water treatment and sanitation activities
- **Water conservation and Sanitation activities in Dhamni, Dherang, Choti-**

Dhamani&Houshachi-Wadi villages (under UBA and SAP)

- A door-to-door toilet survey
- Counselling of open defecators
- Intensive awareness campaign against open defecation
 - Awareness talk on open defecation, hand-washing habit and sanitation.
 - Skit on open air defecation by MGM interns
 - Workshop on waste management for Anganwadi/ASHA workers/village leaders
 - Sanitation pledge for Anganwadi/ASHA workers/youth group members
 - Sanitation rally by medical students
 - Demonstration of Hand-washing for school/Anganwadi children
 - Drawing competition on 'Swachha Bharat' for school children
 - MGM team helped in successful completion/repair of semi-constructed toilets and renovation of school toilets.
 - Assisted Gram Panchayat to develop nallah system for waste water.
 - Master plan for providing potable water and repurposing of grey water made with help of water recycling consultant.
 - Survey at Choti-Dhamani and Houshachi-Wadi for water resource sustainability.

Evidence of success

- **Water requirements of campus:** Deficit of water requirement is 150 KLD out of which first WTP meets 80 KLD and second upcoming WTP will meet 100 KLD. Total requirement of campus water is 600 KLD of which CIDCO supplies 450 KLD (shortage of 150 KLD).
- **Reduction of water tanker requirement** and saving of Rs 60 lakhs/annum which will further increase.
- **Saving of life cycle energy cost:** The WTP utilises a pump of only 1.5 HP to lift the water.
- **Saving of man-hours:** Processing parameters are standardized and automated, with the human operator task limited to filling dosing vessels with processing chemicals.
- **Potable quality water:** reports of Government laboratory.
- **In-house solid waste recycling:** Compost produced is used for gardening.
- **Recognitions: At national level efforts are appreciated:**
 - **MHRD Commendation Award:** The Mahatma Gandhi National Council of Rural Education (MGNCRE) has chosen MGMIHS to receive Commendation Award "*Green Institutional Mentor*" for *contribution to water conservation and sanitation management*.
 - **Swachh Campus Ranking 2018:** Third among cleanest Higher Education Institutes of India in category Technical College.
 - **Swachh Campus Ranking 2019:** First among cleanest Higher Education Institutes of India in category Technical College.
 - **Association of Health Providers (India) Award 2019:** for excellence in community engagement.

Problems Encountered and Resources Required

- Allocation of resources and meticulous planning was required for construction of WTP.
- Coordination for sanitation related activities in outlying villages.
- Inculcating correct attitude among local villagers for community involvement in sanitation activities.

BEST PRACTICE 2**Title of the practice**

Inculcating research, innovation and entrepreneurship among students and staff at MGMIHS.

Objectives of the practice

MGMIHS is focusing on research in areas ranging from drug discovery to patient care. The major objectives are:

- To foster research environment, innovation and entrepreneurial spirit among students, faculties and stakeholders.
- To provide basic, advanced and applied training in research.
- To explore the potential of interdisciplinary research for finding better, safer and more affordable ways of diagnosing, treating and preventing disease.
- To boost advanced research so as to produce high impact factor publications, high value IPRs, commercialization of R&D outputs, technology transfer and entrepreneurship.
- To create research-driven skilled manpower.
- To support start-ups including mentoring and infrastructure.

The context

- Global disease burden is showing a worrying trend. Several factors are responsible for disease development including poor sanitation, lack of clean water, interaction with infectious agents, errors in genetic makeup etc
- Modern dietary patterns and physical activity patterns are risk behaviours that travel across countries, are transferable and affect disease patterns globally.
- Several factors such as disease detection techniques, availability of wide range of vaccines and active pharmaceutical/ bio- pharmaceuticals, improved sanitation, availability of adequate food and safe drinking water, and environmental consciousness contribute to better disease management.
- Nevertheless, a basic understanding of disease aetiology and interdisciplinary scientific intervention are needed for present-day disease management.
- With advancements in research, interdisciplinary scientific platforms can be expanded to harness knowledge for disease management. Using such platforms, many diseases can be diagnosed, cured or predicted well in advance. Innovation plays a vital role in this domain.

The Practice

- To place emphasis on interdisciplinary scientific platforms, MGMIHS has carried out

studentcentricand innovation-driven research initiatives.

- Several policies have been framed such as Incubation policy, Consultancy policy, IntellectualProperty Rights (IPR) policy, etc.
- Innovation drive is focused on interdisciplinary research in the areas of Tuberculosis, Malaria,Diabetes, Cardiovascular, Obesity, Ocular diseases etc.

Infrastructure facilities

- MGMIHS has established **MGMIHS OMICS Research Center**and **MGM Centre for HumanMovement Science**. MGMIHS OMICS Research Center as a part of Central Research Laboratory,MGM Medical College is SIRO recognized.
 - **MGMIHS OMICS Research Center:** Centre is focused on drug discovery and molecular diagnostics. The Centre has integrated advanced knowledge of protein science, enzymology,metabolic network, natural product chemistry, green synthesis etc. under interdisciplinaryresearch.
 - **MGM Centre of Human Movement Science:** established in collaboration with IndianInstitute of Technology, Bombay and International Society of Biomechanics (USA) (ISB) toaddress an urgent need for integration of clinical biomechanics in Indian healthcare.
- **MGM Central Research Laboratory:** is well established to promote interdisciplinary work.**Zebrafish facility** is in use.
- **Centre/Council to facilitate innovation**
 - MGMIHS established **MGMIHS Incubation and Innovation Centre** and **Institution'sInnovation Council**, to boost innovation ecosystem in campus.
- **MGMIHS Incubation and Innovation Centre:**
 - Motto of the Centre is '**Discover, Develop And Deliver**'.
 - Activities integrate multiple disciplines such as medical sciences, physiotherapy, prostheticsand orthotics, nursing, biomedical sciences etc. This Centre is well connected with variouslaboratories of MGMIHS for basic/applied work with facilities of library, technical/ITSupport, laboratory, workshop & testing, research mentoring etc.
 - In the ideation stage, fourteen projects were proposed by faculties in domains such asbioprocesses, bioproducts, biomedical device, nutraceuticals, pharmaceuticals, diagnostics,waste management and health care products. The outcome of the proposed projects targetsthe development of innovative novel product, process and technology
 - For sensitization on innovation, the Centre has organised guest lecture on IPR, Workshopon "Innovation and Intellectual Property Rights", Idea Competition and Designcompetition.
- **MGMIHS Institution Innovation Council (IIC):**
 - To boost innovation for research, the Council has conducted events such as IIC

calendar activities, MHRD Innovation Cell (MIC) and self-driven activities.

- The Council has sensitized students, faculty and other stakeholders in the area of IPR, mainly patents.

Evidence of success

Ongoing interdisciplinary research has significantly boosted the domain of IPR.

- **Patents**
 - One patent awarded: (Quantum dot powered IP-10 antibody based kit for latent TB and TB antigen) has been granted by Govt. of India.
 - 9 patents published
 - Students have been involved in the process of patent grant from the stage of idea to invention.
- **Copyrights:**
 - 8 copyrights have been published
- **Awards/Appreciation:**
 - Govt. of Maharashtra Award for excellence in medical education and contribution in field of National TB Program.
 - MGMIHS faculty and students received 41 awards/ recognition for research.
- **Publications:**
 - 2175 publications in peer-reviewed journals.
- **Funded research:**
 - 158 projects funded by external agencies including consultancy amounting to 391.41 lakhs.
- **Start-Ups**
 - Following nine start-ups incubated
 - Gait and full body motion analysis system
 - Cardiopulmonary fitness testing system
 - Pedobarography system
 - MGM Vaccum Dressing
 - Balance Performance Testing Center
 - Portable Biosafety cabinet
 - MGM O & P care
 - MGM Fish feed technology
- **Collaborative activities**
 - 108 collaborations/MOUs for research, faculty and student exchange, and industry internship have been promoted.
- **Job Placements**
 - 74 Ph. D. students are placed for jobs in various colleges and companies.
- **Activities of Institution's Innovation Council, MGMIHS**
 - Students were sensitized about diverse applications of research and were motivated in the fields of entrepreneurship and IPR. The total attendance for these events was

797.

Problems Encountered and Resources Required

- Time is an important factor for interdisciplinary research and innovation.
- All stakeholders need to dedicate a good amount of time to get the best output.
- Faculty of various disciplines were required to adjust their academic/clinical responsibilities to participate in joint efforts.
- More efforts to sensitise faculty & students of various disciplines for collaborative research work.
- Needed more efforts to enhance the extramural funding to promote research & innovation from government & non-government agencies.
- Enhance the international research collaborations for quality research output for the benefit of the common community.

Key Indicator - 7.3 Institutional Distinctiveness (20)

| Metric No. | |
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| 7.3.1 | <p>Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words</p> |
| Q/M | <p>Response:</p> <h3>Integration of clinical biomechanics in Indian healthcare</h3> <p>MGM IHS has identified the “Integration of clinical biomechanics in Indian healthcare” as area of distinctiveness of priority & thrust of institute.</p> <p>MGM Centre of Human Movement Science (MGMCHMS) was established by MGM School of Physiotherapy, Navi Mumbai in 2015 with support from International Society of Biomechanics, Pennsylvania, USA and Biomedical Engineering and Technology (incubation) Centre (BETiC)-IIT Bombay to address an urgent need of integration of clinical biomechanics in Indian healthcare. Clinical Biomechanics is a science of human movement in normal and pathological conditions, which is applied in healthcare for diagnosis, clinical decision making for planning, measurement and monitoring treatment outcome. The aim is to generate a task force within the country to undertake research & develop the science of movement analysis in India by conducting integrated training for clinicians & health care professionals within India to develop movement science for health promotion; reduction of rising burden of noncommunicable-diseases (NCDs) for e.g. diabetes, arthritis, Parkinson’s, cerebral palsy, etc. and technology design for rehabilitation of movement disorders. The mission is to provide people with comprehensive movement-analysis facilities following injury/disorder at an affordable cost for precise clinical-decision-making.</p> <p>Infrastructure and manpower:</p> <p>MGM CHMS is spread over 2116 sq feet, equipped with robust state of art technology for comprehensive evaluation of human motion; including 12-camera-system (Vicon, UK) for</p> |

kinematic; three forceplatforms (AMTI,USA) for kinetics; FitmateMed (COSMED, Italy) for metabolic cost and Surface-EMGSystem (Delsys, USA) to measure muscle activity during motion. A pressure platform (novel,emed,Germany)evaluates foot-geometry and plantar-pressure distribution and Step-Watch-Activity-Monitor(USA) records daily walking performance. A core team of 4 Physiotherapy faculty members, 2research fellows and 2 master's students in Physiotherapy contribute to academic, clinical and researchactivities of MGMCHMS.

Activities:

Academic: The Centre has offered exclusive live-training in Human Movement Science/Kinesiology/Clinical Biomechanics-particularly-3DGait Testing as curricular activity to over 1000students of MGMIHS, including BPT,MPT,P&O, M.S.(Ortho)programs. Additionally, 9 Value Added Courses were offered; including 6 in 2D/3D Gait-Analysis and 3 in ClinicalBiomechanics which benefitted health and engineering students and research scholars across India andguided tours to spread knowledge and awareness of biomechanics.

Clinical:MGMCHMS has offered exclusive gait/running/balance/foot geometry/dance movement/sporttesting/squat analysis to a wide spectrum of over 500 patients following injury/disorders e.g. cerebropalsy/knee-OA/amputation/knee-arthroplasty/stroke/diabetic-foot/Parkinson's-disease/sportsinjuries/dance- injuries for precise treatment planning and performance enhancement.

Research:

The thrust of inter-disciplinary collaborative research at MGMCHMS resonates with India's nationalhealth priority to reduce rising burden of NCDs by exploring simple, life-style modification solutions forhealth-promotion.Projects designed for biomechanical exploration of Yogasanas-e.g.Suryanamaskar; ground-level-activitye.g. squatting; classical dance-forms-e.g.Bharatnatyam and traditional sports-e.g. skipping are funded intramurally.Research efforts continue to maximize function in cerebral palsy children, people withOsteoarthritis, early detection of risk to foot-injury in diabetic-neuropathy; design simple tool to reduce fatigue of spine muscles among mathadi (labourers)-workers.

- National interdisciplinary project with Mechanical Engineering Dept.-IIT **Bombay** to develop a powered trans-tibial-prosthesis for people with below-knee-amputation is funded by Departmentof-Biotechnology.
- International interdisciplinary project with Mechanical-Material Engineering Dept., **QueensUniversity, Canada was funded by NSERC, Canada and Shastri-Indo-Canadian Institute** to evaluate birthing positions in non-pregnant women.
- Additionally, complementary research in healthcare conducted by PhD scholars and post-graduate students of Physiotherapy and Engineering has resulted in 13 scientific publications till date.

Validation of Technology:

The Centre has validated 5devices in motion-technology; out of which two were awarded for scientificinnovation at national and international level respectively.

Start-ups:

Four Start-ups are being incubated based on original research output generated by MGMCHMS.

IPR: 02 Patents filed & testing data are copyright.

Interdisciplinary collaborative research work has led to **two patents** titled-‘A device for measurement of properties of a body part’(2015) & ‘A Device for Screening of a Diabetic Foot’(2018) which are filed. Indigenous data and testing reports(6) are filed for copy-right and 1 tool is copyrighted (2018).

Collaborations and Linkages:

MGMCHMS works with distinguished researchers from health and engineering disciplines nationally and internationally from Government and Non-Government-Organizations to integrate clinical biomechanics in Indian healthcare to address unmet needs.

Collaborations:

- IIT-Bombay
- IIT-Madras
- Cardiff University-UK
- International Society of Biomechanics-Pennsylvania-USA
- University of Sydney-Australia
- World Spine Care
- KaivalyaDhama Yoga-Institute, Lonavala, Sancheti College of Physiotherapy, Pune; Ratnanidhi Charitable Trust-Mumbai etc.

The Centre is actively linked with India Institute of Science(IISc), Bangalore; SVYASA, Bangalore; BARC Mumbai etc in projects of mutual interest.

Uniqueness:

One of the exclusive feature of MGMCHMS is it’s interdisciplinary approach adopted to train students(MPT, MTech) and research scholars(PhD) of national premier Government engineering and technology institutes (e.g. IITs, NITs, BARC) and clinicians and provide them a conducive platform to undertake collaborative research; despite being a self-funded Centre. MGMCHMS is the only Center in India, offering clinical-services in India along with Bangladesh and Germany and validates technologies developed by industries.

Eminent Visitors:

The Centre has benefitted from input provided by eminent personalities:

- Padma-Vibhushan Dr. Anil Kakodkar, Chairman Rajiv Gandhi Science & Technology, Govt. of India, Ex-Chairman BARC, Mumbai;
- Dr. Prabhat Ranjan, Executive Director, Technology Information, Forecasting and Assessment Council (TIFAC);
- Padmashri Dr. Kanak Rele Founder-Director, Nalanda Dance Research Centre, Mumbai;
- Dr. Manohar Panjabi, Dr. Margareta Nordin-Vice President, World Spine Care & Professor, New York University-USA;
- Dr. DH Dastoor, Ex-HOD, Physiotherapy, Seth GSMC & KEM Hospital, Mumbai;

- Dr. John Reid, President Indo- Canadian-Shastri-Institute;
- Dr. Roshan Wania, Senior Neuro-Physiotherapist, Bombay Hospital;
- Dr. Robert VanDeursen, Professor, Rehabilitation Science, Cardiff University-UK;
- Dr. Kathryn Refshauge, Chair of Physiotherapy & Dean, Faculty of Health Sciences, University of Sydney, Australia;
- Dr. Genieve Dumas, Professor, Dept. Mechanical & Material Engineering, Queens University, Canada;
- Dr. Andrea Hemmerich, Affiliate-Societies-Officer, International Society of Biomechanics;
- Dr. Scott Haldeman, President, Global Spine Care Initiative, USA;
- Dr. Brian Kennedy Sports Journalist-Writer, California, USA; etc.

Future plan:

- To develop MGMCHMS as an international Centre of Excellence in Human Movement Science;
- Recognition of MGMCHMS as a National & international Centre for Validation of Technology pertinent to motion;
- Development of much-needed health care solutions for early detection and management of neuromusculo-skeletal and cardio-pulmonary conditions for reduction of burden of NCDs.

Remarks of Committee:

Several measures for gender equity promotion have been undertaken by the University. The inclusive environment of the Institution is well reflected. The stakeholders have been sensitized to the constitutional obligations. The culture of Gandhian Philosophy is unique and internalized as a cultural value in the true sense. The initiative of integration of Biomechanics in Health care is highly appreciated.

Final Remarks of the Academic and Administrative Committee:

1. Curricular revisions have been done periodically, in line with guidelines given by respective Statutory Councils, including innovative pedagogies.
2. The University is in process of having a full time Director for the Internal Quality Assurance Cell.
3. It is desirable to have an Industry expert in the Internal Quality Assurance Cell of the University.
4. The outcomes of the workshops / CME related to quality enhancement / faculty development, should be critically analysed by the IQAC.
5. The Skills Laboratory has state-of-art infrastructure. Its role in Curricular Governance needs to be clearly reflected, especially with reference to implementation of the Competency-Based Curriculum for undergraduate students.
6. The Medical Education Units have been proactive in training of Faculty for CBME Curriculum. They have a great potential to formulate module-based sessions for selected teaching skills for postgraduate students.
7. The Innovation and Incubation Centre of the University has been instrumental in initiating start-ups. There is a scope for more initiatives. The Research Cell should have a close follow-up on progress / outcomes of various activities of the Centre.
8. University can initiate more theme-based national and international collaborations.
9. The initiative to start programs of MS Traumatology and Surgery and MD Family Medicine is highly appreciated. However, the concerned Departments need to mature over time. The concept of Department Mentoring for new departments needs to be in place.
10. The Action Taken Report needs to be available at department level as well.
11. Alumni participation in academic activities could be strengthened.
12. There is a great scope for Department of Geriatrics to undertake Quality of Life studies.

13 The Institution can identify Departments with a potential for Centre of Excellence

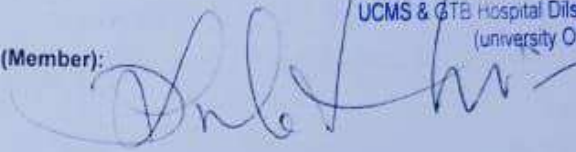
14 All departments will keep the IOAC in loop for all activities like a hub and spook model

Name and Signatures of Committee Members:

1. Dr. Narinder Kumar Aggarwal (Chairperson):

 Director Prof (Dr.) N K Aggarwal
MBBS, MD, MCh, FRCR, WHO FELLOW, FICFMT, FRCR
Head Dept. of Forensic Medicine & Toxicology
UCMS & GTB Hospital Dilshad Garden Convi-95
(University Of Delhi)

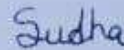
2. Dr. Siddharth P. Dubhashi (Member):



3. Dr. Savita Ravindra (Member):



4. Dr. Sudha Raddi (Member):



Date: 9th February 2021

Place: Navi Mumbai



MGM INSTITUTE OF HEALTH SCIENCES

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

Grade 'A' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai -410 209

Tel 022-27432471, 022-27432994, Fax 022 -27431094

E-mail: registrar@mgmuhs.com ; Website : www.mgmuhs.com

ACADEMIC AND ADMINISTRATIVE AUDIT REPORT

MGMIHS AUARNGBAD

26th and 28th February 2021

Report of the Academic and Administrative Audit Committee

Name of the University: MGM Institute of Health Sciences, Navi Mumbai

Address: MGM Institute of Health Sciences, Sector 1, Kamothe, Navi Mumbai

Year of establishment: 30-08-2006

Name of Vice Chancellor: Dr. Shashank D. Dalvi

Name of Registrar: Dr. R. B. Goel

Name of IQAC Coordinator: Dr. Rita M. Khadkikar

Name of IQAC Coordinator (Aurangabad Campus): Dr. Swati Shiradkar

Total number of constituent Units: 8

Total number of Departments: 34

Permanent faculty strength: 487

Permanent supporting staff strength: 1557

Total number of students: 3952

Date of AAA Committee visit: 26th to 28th February 2021 (Aurangabad Campus)

Visit schedule: *Annexure*

Committee Members:

1. Dr. Siddharth P. Dubhashi, Professor and Head, Department of Surgery, AIIMS Nagpur
2. Dr. Forhad Akhtar Zaman, Additional Professor and Head, Department of Community & Family Medicine, AIIMS Guwahati

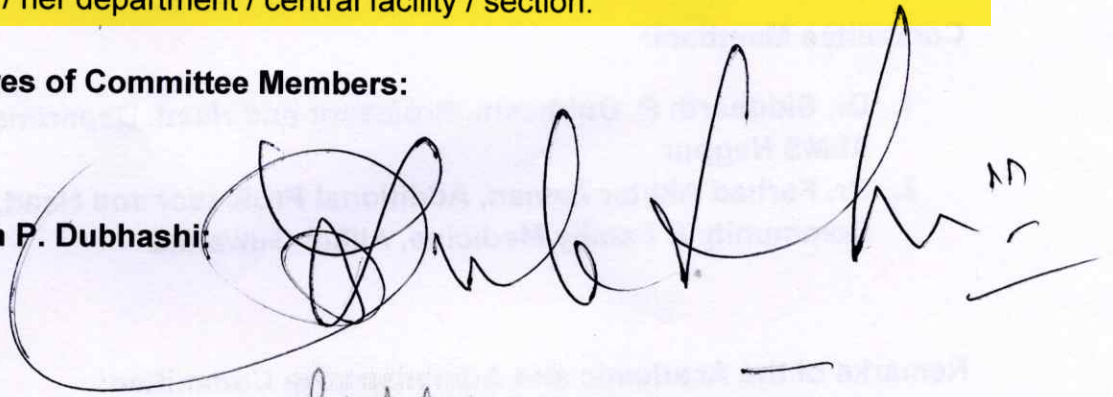
Remarks of the Academic and Administrative Committee:

1. Curricular revisions have been done periodically, in line with guidelines given by respective Statutory Councils, including innovative pedagogies.
2. The outcomes of the workshops / CME related to quality enhancement / faculty development, should be critically analysed by the IQAC.
3. The Action Taken Report needs to be available at department level as well.

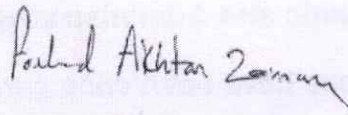
4. Alumni participation in academic activities could be strengthened.
5. All departments will keep the IQAC in loop_for all activities. Documents should be readily available at Central level.
6. The Institution has a State-of-Art Learning Resource Centre. However, its utility by prime stakeholders (Students and faculty) needs to be clearly reflected.
7. The process of approval of research projects / PG dissertations / student projects should be strictly in accordance with the Standard Operating Procedures.
8. It is desirable to designate UG and PG training Coordinators for each department. Documentation at Department level for postgraduate teaching-learning activities needs to be strengthened. Lesson Plans, especially for Undergraduate training program need to be well-documented.
9. Stakeholders be made aware of the remedial training programs.
10. All documents at department level should be authenticated by the Head of department with his / her stamp and signature.
11. Adequate student representation should be evident on all relevant Committees of the Institution.
12. The Governance of the Institution should reflect clear decentralization. Presentations / Visit should be conducted only by the concerned designated faculty for his / her department / central facility / section.

Name and Signatures of Committee Members:

1. Dr. Siddharth P. Dubhashi:



2. Dr. Forhad Akhtar Zaman:



Date: 28th February 2021

Place: Aurangabad



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