



Yearly Status Report - 2018-2019

Part A

Data of the Institution

1. Name of the Institution	MGM INSTITUTE OF HEALTH SCIENCES, NAVI MUMBAI
Name of the head of the Institution	Prof. Dr. Shashank D. Dalvi
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	02227437602
Mobile no.	9422202126
Registered Email	vc@mghmuhs.com
Alternate Email	shashank.dalvi@gmail.com
Address	MGM INSTITUTE OF HEALTH SCIENCES Sector-1, Kamothe
City/Town	Navi Mumbai
State/UT	Maharashtra
Pincode	410209

2. Institutional Status	
University	Deemed
Type of Institution	Co-education
Location	Urban
Financial Status	private
Name of the IQAC co-ordinator/Director	Prof. Dr. Siddharth P. Dubhashi
Phone no/Alternate Phone no.	02227437694
Mobile no.	9820362185
Registered Email	iqac@mgmuhs.com
Alternate Email	registrar@mgmuhs.com

3. Website Address	
Web-link of the AQAR: (Previous Academic Year)	https://www.mgmuhs.com/Reports/AOAR2017-18.pdf
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	https://www.mgmuhs.com/Academic.html

5. Accrediation Details					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	A	3.07	2014	21-Feb-2014	20-Feb-2019
1	A	3.07	2014	21-Feb-2019	20-Feb-2020

6. Date of Establishment of IQAC	21-Nov-2013
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7. Internal Quality Assurance System		
Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries

Guest Lecture on Revised accreditation framework for Research, Consultancy and Extension activities (Dr. S.P. Thyagrajan)	12-Jan-2019 1	53
National Seminar on Revised Accreditation Framework in collaboration with NAAC	19-Jan-2019 1	76
Workshop on Pathways to Surgical Excellence	25-Feb-2019 1	29
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Pediatrics, MGM Medical College, Navi Mumbai	Typhoid Vaccine Trial	WHO	2018 519	4460000
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9. Whether composition of IQAC as per latest NAAC guidelines:

Yes

Upload latest notification of formation of IQAC

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10. Number of IQAC meetings held during the year :

5

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report

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11. Whether IQAC received funding from any of the funding agency to support its activities during the year?

No

12. Significant contributions made by IQAC during the current year(maximum five bullets)

Introduction and implementation of CBCS and CBME/Outcome based education (OBE)

UGC Quality initiatives (Structured induction program for students and staff)

Internal and External Academic Administrative Audit (AAA)

Library and Examination section Automation

Participation in pilot study of NAAC for RAF and SSR manual of health sciences universities (2018) and organization of National seminar on RAF (2019)

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
Enhancement of Faculty Appraisal workshop	Formats revised and implemented
Automation of Exam Section	Increased transparency, better stakeholder satisfaction, faster declaration of results
Automation of Library	User friendly transactions and improved library user rate
Upgradation of emergency and trauma services	Upgradation of infrastructure related to emergency services, Application for PG course in Emergency Medicine at Aurangabad and MS Traumatology and Surgery at Navi Mumbai
UG Research	Awareness and motivation of UG students for research activity
Research Linked Incentives	Policy framed, approved by BOM and implemented
Structured Feedback on PBL, Communication Skills and Bioethics training	Significant improvement in analytical approach and clinical reasoning for effective patient care, Increased awareness amongst faculty and students for patient privacy, confidentiality and patient rights
Research Methodology Training	Structured training program for research methodology introduced in induction process for PG students, Increased awareness amongst faculty and students regarding plagiarism policy and academic integrity, Increased awareness regarding research grant writing

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body	Meeting Date
Board of Management	19-Jul-2019
15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	07-Aug-2018
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2019
Date of Submission	30-Jan-2019
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief description and a list of modules currently operational (maximum 500 words)	<p>MGM Institute of Health Sciences has a well laid Management Information System (MIS) for all its major departments/units. All the activities pertaining to Administration, Academic Matters, Financial Matters, Hospital, Pharmacy and Stores are automated and are governed by the means of certain Management Information Systems. Student Management System: The academic activities starting from the admission to the convocation is automated and is governed by the Student Management System which has various deployed in several areas of the University. A brief module wise description of the Students Management System is as follows: 1. Admission Module: The admission in the various constituent units of the University is done through a Common Entrance Examination. So, from registration of eligible interested students in which they are required to upload the required documents to Generation of Hall Tickets is done from this module. Whenever a student registers on the module, his login id and password is created and he gets his own login portal. Payment is collected with the Payment Gateway integrated with it. After registration, all the details go to the Examination Section and after the verification his hall ticket for the CET is generated. After</p>

CET, a merit list of the qualifying students is created and they all are called for the counselling. After counselling, the admission letter is generated to the students who finally get admitted in the constituent units. Eligibility Forms are also generated by this module only and it also has the Payment Gateways integrated with it. 2. Examination Module: All the activities related to examinations of all the constituent units of MGMIHS are governed by this module. Generation of seat numbers and barcoding of answer books is done by it. After Examination the copies are also evaluated electronically, in which they are evaluated by using a special type of pad and pen, through which the marks of all the answer books are entered electronically to the software directly and are stored in the server which is hosted in house. 3. Convocation Module: All the data regarding the convocation of the students is collected online in which the students have to fill the required details in the form present online and have to scan their photograph which are further pasted on their degree. The degree generation and authentication is also automated. Library Management System: The Library is fully automated using KOHA: ILMS. All modules of KOHA such as a) Administration, b) OPAC circulation, c) Patrons, d) Advanced search, e) Cataloging, f) Acquisition, g) Serials, h) Reports, i) Tools 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.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
MBBS	MGM01	M.B.B.S	20/11/2018
MD	MGM02	Anatomy	20/11/2018
MD	MGM03	Physiology	20/11/2018

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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
MSc	Medical Radiology Imaging Technology	01/08/2018	Conventional Radiology and Imaging Equipments (MMRIT 101 L) MGM 04217	01/08/2018
MSc	Medical Radiology & Imaging Technology	01/08/2018	Radiographic and Imaging Techniques (MMRIT 105 L) MGM 04220	01/08/2018
MSc	Medical Radiology & Imaging Technology	01/08/2018	Radiological and Imaging Procedures (MMRIT 109 L) MGM 04223	01/08/2018

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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
MOptom	Optometry	01/08/2018
MSc	Cardiac Care Technology	01/08/2018
MSc	Medical Radiology & Imaging Technology	01/08/2018

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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
MPT	Cardio Vascular Respiratory Physiotherapy	01/08/2019
MPT	Community Physiotherapy	01/08/2019
MPT	Sports Physiotherapy	01/08/2019
MSc Medical Anatomy	Medical Anatomy	01/08/2019

MSc Medical Biochemistry	Medical Biochemistry	01/08/2019
MSc Medical Microbiology	Medical Microbiology	01/08/2019
BOptom	Optometry	01/08/2018
MSc	Medical Biotechnology	01/08/2018
MSc	Medical Genetics	01/08/2018
MSc	Clinical Embryology	01/08/2018
MHA	Hospital Administration	01/08/2018
MSc	Biostatistics	01/08/2018
MSc	Molecular Biology	01/08/2018
MSc	Clinical Research	01/08/2018
MSc	Master of Health Profession Educatoin	01/08/2018
MSc Medical Pharmacology	Medical Pharmacology	01/08/2019
MSc Medical Physiology	Medical Physiology	01/08/2019
MSc	MEDICAL RADIOLOGY AND IMAGING TECHNOLOGY	01/08/2018
MSc	CARDIAC CARE TECHNOLOGY	01/08/2018
MOptom	Optometry	01/08/2018
MSc	CLINICAL NUTRITION	01/08/2018
MPH	Public Health	01/08/2018
BSc	MEDICAL DIALYSIS TECHNOLOGY	01/08/2018
BSc	OPERATION THEATRE AND ANESTHESIA TECHNOLOGY	01/08/2018
BSc	MEDICAL IMAGING TECHNOLOGY	01/08/2018
BSc	PERFUSION TECHNOLOGY	01/08/2018
BSc	MEDICAL LAB TECHNOLOGY	01/08/2018
BSc	CARDIAC CARE TECHNOLOGY	01/08/2018
BPT	Physiotherapy	01/08/2019
MPT	Musculoskeletal Physiotherapy	01/08/2019
MPT	Neuro Physiotherapy	01/08/2019

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Course in Data Analysis using SPSS	08/06/2018	63
Short Course in advanced Chest Imaging	11/08/2018	23
COURSE IN MICROSCOPE AND STAINING TECHNIQUES	01/03/2019	40

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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MBBS	MBBS	1185
MD	Pharmacology	12
BPT	Physiotherapy	302
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>Curriculum is planned educational experience. It comprises of learning outcomes, teaching and learning methods, educational strategies, context of learning, learning environment and assessment methods and feedback. Feedback is obtained from all stakeholders - Students, Teachers, Employers, Alumni, Professionals and Patients. Feedback is obtained by formal as well as informal methods. Feedback proforma are used for obtaining feedback, which are designed after discussion in curriculum committee. Feedback is taken regarding various aspects of curricular process - content, methods, and assessment system - formative and summative evaluation, Learning environment, use of ICT, Context, and Integration of curriculum - Vertical Horizontal. Method of obtaining feedback are manual physical forms, digital through Google forms and informal through continuous interactions of faculty and administration with students in classroom settings, community posting, field visits, hospital - OPD, IPD work areas, Hostels, and parent - Teacher meetings. The formal feedback are anonymous, students do not reveal identity. They are collected and sent to IQAC. Institute has well organized Internal Quality Assurance cell system with three tiered structure - University IQAC, Institute IQAC Departmental IQAC. Feedbacks are analyzed and reports of various components are generated. The institute has statutory Governance structure. Academic matters are discussed in various boards of studies which are further deliberated in Faculty, Academic Council and Board of Management and decisions are communicated to Institutes Departments for Implementation review of implementation is taken. Curriculum committees discuss implementation through time tables, Teaching - learning and evaluation system monitoring involving Heads of departments and faculty. There is students representation - Boys Girls in various Committees. Feedback has tremendous positive impact on development of institute. There is vibrancy in academic, extracurricular and student support activities. Feedback helps in evaluation of students, faculty and programs and for implementation of corrective measures. Feedback of Cognitive, affective and psychomotor domains help in taking targeted measures e.g. for domain knowledge, counseling sessions, clinical skills. Feedback has lead to syllabus revisions - e.g. inclusion of Bioethics in curriculum, development of skill lab, expansion of outreach services, incorporation of newer programs - MD (Emergency Medicine), MD (Geriatrics), Fellowships in clinical specialties, Biomedical Technology</p>

Courses, BPO Program. Evaluation system feedback lead to IT integration, automation, prompts declaration of results, adoption of objective methods - OSPE, OSCE, OSVE. Faculty development strengthening is another positive outcome of feedback. Institute has 'Health Professional Educational Unit', which conducts faculty training programs in curricular development, Assessment methods, Research methodology, problem based learning, integrated teaching, e - learning etc. Institute hosted conferences - EDUCON Global perspectives in Medical Education, where in Dr. Ronald Harden, Global leader conducted workshop. Feedbacks have given thrust to development of infrastructure - Physical, Academic Extracurricular facilities. There has been boost in research activities - students participating in ICMR - STS projects. Feedback has increased transparency, accountability, Governance is a propellant of our activities Feedback is valued as a precious input by the institute.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BSc Nursing	Nursing	50	772	50
MPT	Physiotherapy	33	43	12
BPT	Physiotherapy	130	772	130

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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	3240	712	267	220	487

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
487	487	19	127	3	9

[View File of ICT Tools and resources](#)

[View File of E-resources and techniques used](#)

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

MGMIHS Students Mentor-Mentee system: 1. Both the campuses have a well-structured Mentor-Mentee system. Students are allotted to experienced teachers as per recommendations of heads of the department permission by higher authorities. It is a great support for the Mentee for their holistic development. It provides gratification and greater bonding for both the student the faculty. 2. On joining the institutions, students are divided into groups of 8 to 10 students. Each group is placed under one mentor selected from among Professors, associate professors, assistant professors / lecturers and tutors. 3. In medical courses at Navi Mumbai, mentors are

allotted for a given academic year. However, medical students at Aurangabad and in all other streams at both the campuses are allotted at the entry point and remain the same till they exit the institution. 4. All mentees meet their respective mentors formally on fixed days and informally. 5. The record of mentor mentee interaction is documented in a mentorship form which explicit depicts the various facets of interactions namely, marks obtained in formative assessment, attendance for training programmes, participation in co-curricular and extracurricular activities and any other problems faced by the mentee, in relation to academic matters (understanding of the subjects, books for reference, performance) or personal issue (travel, hostel, canteen, mess, ragging, home sickness, health issues, emotional disturbances, ambitions, personal challenges etc). 6. Strengths and weaknesses of the mentees are noted by the mentors and informed to the respective head of the department which is then conveyed to the respective Dean for appropriate remedial action. 7. Remedial classes are taken for low performers (those who have scored less than 35 marks in the formative exams). 8. The mentors also identify extraordinary talent amongst the students and take due efforts for grooming the identified hobby/ talent. 9. Advance learners (those who have scored more than 75 marks in the formative exams) provided ample opportunities for grooming leadership skills and participation on co-curricular events (quiz competitions, debates, presentations etc.) research activities at state/ national / international levels. 10. The counselling mechanism is in place through a counselling cell which works with formulate standard operating procedures with the help of the head of institutions and concerned head of the departments maintaining required confidentiality. 11. The academic progress of the student is critically monitored by all mentors. The same helps in effective interactions at the parent teacher meetings. 12. Thus, the mentorship system fosters a sense of responsibility and loyalty in the minds of the students towards Alma mater thereby, nurturing a strong alumni institution bond.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
3952	487	9

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
487	419	68	68	232

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr. Ajita Annachatre, National level	Assistant Professor	ISACON Maharashtra 2018
2019	Dr. Mansee Thakur, National level	Professor	CMAI Association of India
2018	Dr. Siddharth P. Dubhashi, National level	Professor	Association of surgeons of India

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
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MD	MGM03	Year-end	20/04/2019	20/04/2019
MD	MGM02	Year-end	20/04/2019	20/04/2018
MBBS	MGM01	Year-end	25/08/2018	31/08/2018
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
73	4100	1.8

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://assessmentonline.naac.gov.in/storage/app/hei/SSR/104398/1.1.1_158402327_1_3573.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
MGM01	MBBS	MBBS	311	275	88.42
MGM02	MD	Anatomy	1	1	100.00
MGM03	MD	Physiology	3	3	100.00
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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

[https://www.mgmuhs.com/NAAC/c2/2.7.1/2.7.1%E2%80%93Student-Satisfaction-Survey-\(SSS\).pdf](https://www.mgmuhs.com/NAAC/c2/2.7.1/2.7.1%E2%80%93Student-Satisfaction-Survey-(SSS).pdf)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
International	Ms. R. Ponchitra	Fellowship FAIMER	15/06/2019	PSG FAIMER Regional Institute Coimbatore
National	Dr Vaishali Sangole	Otology Fellowship , Pollachi India.	20/12/2018	Pollachi India.
National	Dr. Varsha Kandewad	Fellowship of Minimal Access of Surgeons of	25/01/2019	Association of Surgeons of India

India (FMAS)

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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
Clinical Research Assistant	365	MGM Medical College Hospital Aurangabad
Senior Research Fellow	365	ICMR
Clinical Research Coordinator	335	MGM Medical College Hospital Aurangabad

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Industry sponsored Projects	365	Sanofi-Synthelabo Pvt Ltd	112.93	0.6
Industry sponsored Projects	365	IQVIA HDS (India) Private Limited	20.4	0.4
Industry sponsored Projects	365	Accutest	10.97	0.8

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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
IPR and Industry Academia Innovative practice at Workplace	MGM School of Biomedical Sciences, Navi Mumbai	03/07/2018
Cepheid Training : GeneXpert Technology Software with MTB-Rif Assay HIV-VL MGM MC	MGM Medical College, Navi Mumbai	03/08/2018
Site Initiation Visit (Macleods Pharmaceutical Ltd)	MGM Medical College, Aurangabad	06/08/2018

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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
Certificate of Recognition For Innovation in Research	Preeti Samir Pachpute	MGM Institute of Health Sciences	30/08/2018	Research Scholar

Publishing Copyright Entitled : MGM Ground Level Activity Exposure Questionnaire	Dr Bela Agarwal	MGM Institute of Health Sciences	30/08/2018	Teacher
Certificate of Merit In National Level Competition For Life Sciences Students	Gayatri Yadav	IIT Kharagpur	20/12/2018	Students
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
MGMIHS	MGM Innovation Incubation Centre	MGMIHS	Portable Biosafety cabinet	MGM Analyticals- Affordable technology	10/11/2018
MGMIHS	MGM Innovation Incubation Centre	MGMIHS	MGM O P care	Analyticals- Affordable technology	10/11/2018
MGMIHS	MGM Innovation Incubation Centre	MGMIHS	MGM Fish feed tech	LifeBioTech - Technology for Biosciences	29/03/2019
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3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Biotechnology	1
Genetics	2
Hospital Management	1
Nursing	10
Pharmaceutical Management	2
Pharmacology	2
Physiology	2
Physiotherapy	4

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Anatomy	9	2.51
National	Anatomy	5	2.06

International	Anesthesiology	11	1.79
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Biomedical Sciences	2
Biotechnology	2
Clinical Nutrition	5
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3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
MGM Ground Level Activity Exposure Questionnaire	Published	L-76907/2018	27/07/2018
Characterization and Toxicity Assessment of Homeopathy Drugs in Zebra fish Embryos	Published	L-78185/2018	04/10/2019
Histological and Bioaccumulation Evaluation of Gold Nanoparticles in Gonads of ZebraFish (Danio Rerio)	Published	L-78260/2018	09/10/2018
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Aflibercept for recurrent or recalcitrant polypoidal choroidal vasculopathy in Indian eyes: Early experience	Kathiriyav , Kanhere M, GalaY, Suresh R.	Indian Journal of Ophthalmology	2018	1	MGM Medical College, Navi Mumbai	0
Limited vitrectomy in phacomorphic	Mehta I, Kalapad SJ, BhosaleT,	Indian Journal of Ophthalmology	2018	1	MGM Medical College, Navi	0

glaucoma	Ramchandani S.				Mumbai	
Comparison of immediate extubation versus ultrafast tracking strategy in the management of off-pump coronary artery bypass surgery.	Nagre A S, Jambures N P.	Annals of Cardiac Anaesthesia	2018	1	MGM Medical College, Aurangabad	1
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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
The global spine care Initiative : a systematic review for the assessment of spine-related complaints in populations with limited resources and in low- and middle-income communities	Nordin, Margareta Randhawa, Kristi Torres, Paola Yu, Hainan Haldeman, Scott Brady, ODane CÃ©tÃ©, Pierre Torres, Carlos Modic, Michael Mullerpatan, Rajani Cedraschi, Christine Chou, Roger AcaroÄŸlu, Emre Hurwitz, Eric L Lemeunier, NadÃ©	European Spine Journal	2018	9	9	MGM School of Physiotherapy, Navi Mumbai
The global spine care	Johnson, Claire D	European Spine	2018	9	9	MGM School of Physiotherapy

Initiative : model of care and implementation	Haldeman, Scott Chou, Roger Nordin, Margareta Green, Bart N CÃ´tÃ©, Pierre Hurwitz, Eric L Kopansky-Giles, Deborah AcaroÄŸlu, Emre Cedraschi, Christine Ameis, Arthur Randhawa, Kristi Aartun, Ellen Adjei-Kwayisi, Afua A	Journal				herapy, Navi Mumbai
The global spine care Initiative : care pathway for people with spine-related concerns	Haldeman, Scott Johnson, Claire D Chou, Roger Nordin, Margareta CÃ´tÃ©, Pierre Hurwitz, Eric L Green, Bart N Cedraschi, Christine AcaroÄŸlu, Emre Kopansky-Giles, Deborah Ameis, Arthur Adjei-Kwayisi, Afua Ayhan, Selim Blyth, Fiona Borens	European Spine Journal	2018	7	7	MGM School of Physiotherapy, Navi Mumbai

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	72	92	5	248
Presented papers	6	3	1	0
Resource persons	1	0	0	10

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
MGM Medical college Hospital Navi Mumbai	Medical Health Check Up	Hercules Hosists Ltd	2000
MGM Medical college Hospital Navi Mumbai	Medical Health Check Up	Health India TPA Service Pvt Ltd	596522
MGM Medical college Hospital Navi Mumbai	Medical Health Check Up	Inga Health Foundation	4882328

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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
MGM Medical college Hospital Navi Mumbai	Medical Health Check Up	Hercules Hosists Ltd	2000	2
MGM Medical college Hospital Navi Mumbai	Medical Health Check Up	Health India TPA Service Pvt Ltd	596522	597
MGM Medical college Hospital Navi Mumbai	Medical Health Check Up	Inga Health Foundation	4882328	4882

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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
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IEC Activity: Dengue Fever CBD Belapur	Urban Health Training Centre (UHTC)	3	5
ANC Check Up (As a part of Pradhan Mantri Matritva Yojana) Panvel	Rural Health Training Center (RHTC)	3	4
IEC Activity: Anaemia,balanced diet CBD Belapur	Urban Health Training Centre (UHTC)	3	2
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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
School Health Check- Up	Appreciation Letter	MGM College of Agriculture Biotechnology Aurangabad	4
Medical Health Check up Camp	Appreciation Letter	MGM College of Food Technology Aurangabad	4
Medical Health Check up Camp	Appreciation Letter	Vidya Aranyam MGM School Gandheli	3
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
Dengue Fever CBD Belapur	Urban Health Training Centre (UHTC)	IEC Activity	3	5
Pradhan Mantri Matritva Yojana, Panvel	Rural Health Training Center (RHTC)	ANC Check Up	3	4
Multi Diagnostic Camp Panvel	MJPJAY	Multi Diagnostic Camp Panvel	5	5
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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Research Startup Enterpreunership	MGM Institute of Health Sciences	Not Applicable	365
Internship to Students , Obeservership ,	Dr Karuna	Not Applicable	365

Faculty Exchange			
Internship to Students , Obeservership , Information lecture and practical relating to IT	Dr Chaitali and Dr Piyush	Not Applicable	365
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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Academic Training	Internship	Fortis Hospital Vashi	01/07/2018	31/07/2019	Swapnil Jadhav
Academic Training	Internship	HBT Medical College Dr RN Cooper MUN Gen Hospital Mumbai	23/07/2018	23/08/2018	Krutika Halwai
Academic Training	Internship	KEM Hospital Parel	24/07/2018	24/08/2018	Swati Mane
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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
MGM College of Commerece	18/07/2018	1. Internship to Students , 2. Obeservership , 3.Information lecture and practical relating to IT and Account	3
MGM College of Computer Science and Information Technology	18/07/2018	1. Internship to Students , 2. Obeservership , 3. Information lecture and practical relating to IT	3
MGM Institute of Manegement Studies and Research	27/12/2018	1. Internship to Students , 2. Obeservership , 3. Information lecture and practical	3

relating to Quality management and accreditation

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
2233.76	3276.37

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Newly Added
Laboratories	Newly Added
Seminar Halls	Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Video Centre	Existing
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
Others	Newly Added

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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or partially)	Version	Year of automation
KOHA	Fully	18.05	2016

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	31546	23178009	1504	536130	33050	23714139
Reference Books	9074	15778831	274	566578	9348	16345409
Journals	308	187975	20	0	328	187975

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Gauri Panse	STROKE	ILMS	09/07/2018
Deepshikha Raut	INTRODUCTION TO PROSTHETICS	ILMS	08/08/2018
Dr Ipseeta Ray	Aminoglycosides	ILMS	14/03/2018
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existing	713	73	1	75	17	88	250	1	0
Added	107	30	0	11	5	27	28	0	0
Total	820	103	1	86	22	115	278	1	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

1000 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Geo-tagged photographs	https://www.mgmuhs.com/4-4-4.html

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
8580.51	8246.16	923.79	1386.2

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

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 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. 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 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. 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.

<https://www.mgmuhs.com/NAAC/c4/4.5.2/NMaurb-log-book.pdf>

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	MGM Trust freeship MGM Medical College, Financial Support	620	65221747
Financial Support from Other Sources			
a) National	TATA Trust, DMER Minority Scholarship	39	1077198
b) International	Nil	0	0
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implementation	Number of students enrolled	Agencies involved
Interns orientation programme medical	30/03/2019	99	MGM Medical College Navi Mumbai

college			
Induction training programme for Resident Doctors	05/02/2019	60	MGM Medical College Navi Mumbai
Soft skill Development	11/05/2019	15	MGM University Department of Physiotherapy, Aurangabad
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2019	Students placed / self-employed (On Off Campus)	0	0	0	442
2018	Guest lecture on career guidance physiotherapy, Aurangabad	0	60	0	0
2018	KAPLAN Seminar, Medical college, Navi Mumbai	454	0	0	0
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
4	4	15

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
MGM Hospital Vashi, Navi-Mumbai	17	17	Self-Employed/Private Practice/Consultant	255	255

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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	4	B.Sc.(MEDICAL IMAGING TECHNOLOGY)	B.Sc.(MEDICAL IMAGING TECHNOLOGY)	MGM School of Biomedical Science, Kamothe Navi- Mumbai	M.Sc Medical Radiology and Imaging Technology
2019	1	MBBS	MGM Medical College, Kamothe Navi- Mumbai.	Ashwini Rural Medical College, Hospital & Research Centre, Solapur, Affiliated to MUHS, Nashik	MS General Surgery
2019	2	BPT	MGM School of Physiothe rapy, Navi Mumbai	Dr. D. Y. Patil Vidyapeeth, Pune	MPT-Neurophy siotherapy

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5.2.3 – Students qualifying in state/ national/ international level examinations during the year
(eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
Any Other	99
Any Other	34
Any Other	6

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5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Mahatma Gandhi Birth Celebration-MGM School of Physiotherapy : 2nd OCTOBER 2018	Local	350
Teachers Day Celebration- MGM School of Physiotherapy : 5th September 2018	Local	137
Vivanta 2018 (Freshers party)- MGM Medical college Aurangabad :17th October 2018	Local	168

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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ International	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2019	Award for Scintillation index in framework of Gandian values (National) by Rethink India	National	0	1	000	Shreya Patil

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student Councils are constituted in each constituent unit of MGMIHS. The representatives of each council is elected by student voting. Composition of Student Council General Secretary, Cultural secretary, 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 actively participates in activities of Community welfare such as Swachh Bharat Abhiyan, Unnat Bharat Abhiyan, Blood donation drives, Disaster response etc. The student council also functions as an active member of the Bioethics committee and help in functioning of the Internal quality assurance cell. 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.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

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. VISION: To nurture the culture of participative management through involving all alumni of MGMIHS OBJECTIVES: 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 Major activities: Alumni registrations: 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 INR1,00,000.00 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

5.4.2 – No. of registered Alumni:

3364

5.4.3 – Alumni contribution during the year (in Rupees) :

1616000

5.4.4 – Meetings/activities organized by Alumni Association :

6

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

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. 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. One of such system on decentralization and participative management at MGMIHS is: Academic and Administrative Committee 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: 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

Process: 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.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Teaching and Learning	<ul style="list-style-type: none"> • Workshops on innovative pedagogies • PBL • Integrated Teaching • Six monthly progress report for PG students • Structured Induction Program for UG and PG students • Skill Lab exercises • Simulation techniques • Resident as Teacher workshops • Mentorship system • Dissertation Reviews • Journal Clubs • Microteaching • Case Presentations • Mortality Audits • Prescription Audits • Remedial drills for low performers
Curriculum Development	<ul style="list-style-type: none"> • Curriculum Mapping • Workshops (HandsonTraining) for faculty • Guest Lectures • Training for Curriculum Committee Members • Involvement of all stakeholders in Curriculum designing • Needbased analysis • Focus on CompetencyBased Curriculum model • Emphasis on CBCS model where no Statutory council guidelines are involved • Appointments of eminent academicians on University committees - Board of Management, Academic Council, Boards of Studies
Admission of Students	<ul style="list-style-type: none"> • NEET examinations for UG and PG Medical courses • Centralized counselling by DGHS • MGM CET exam for PhD and Allied Health courses
Industry Interaction / Collaboration	<ul style="list-style-type: none"> • Collaborations • Periodic feedbacks from industrial personnel • Membership of IQAC • IPR workshops
Human Resource Management	<ul style="list-style-type: none"> • Advertisement for vacant posts • Staff Selection Committee • Egovernance • Induction Program for new recruits • Regular training programs for teaching and nonteaching staff • Staff Appraisal System
Library, ICT and Physical Infrastructure / Instrumentation	<p>Full automation of Library KOHA: Open Source Integrated Library Management System (ILMS) Fully Automated 18.05 version Switch over from Libsys to KOHA:2016 URL http://10.1.18.250:8081</p> <p>The library is automated using the Integrated Library Management System</p>

(ILMS) Particulars 1st July 2018 to 31st March 2019 Textbooks 1385 Reference volumes 233 Ancient Books 15 Manuscripts 88 Digitalized traditional Manuscripts Disciplinespecific learning resources from ancient Indian Languages Special Reports 13 Other knowledge resource 255 Total 1990 Keeping in mind the Gandhian thoughts, the Library has acquired about 300 books on Mahatma Gandhi which are, in fact, treasure troves and considered as rare collection. A few books entitled (i) India of my Dreams (ii) My NonViolence (iii) Satyagraha in South Africa (iv) What is Hinduism (v) Way to Communal Harmony and (vi) An Autobiography or the Story of My Experiments with Truth, 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). The collection on Mahatma Gandhi can be accessed through OPAC (Online Public Access Catalogue). Since the Library has Open Access System as well, the Collection on Mahatma Gandhi has been organized in separate section in a helpful sequence. A Bone Library has been developed exclusively for undergraduates with a view to providing them an opportunity for borrowing the various parts of human bones for home reading. The Library acquired 4418 disarticulated bones (axial and appendicular). The library has been designated by WHO Press (WHP), World Health Organization (WHO), Geneva, Switzerland as their one of the Network of Reference Libraries for WHO publications. • Wifi campus • Excellent teachinglearning facilities • Sports facilities • Green campus

<p>Research and Development</p>	<ul style="list-style-type: none"> • Research Policy • Consultation Policy • IPR Workshops • Sessions on Scientific Writing • Innovation and Incubation Centre • Researchlinked incentives • Publication guidelines Committee • Research Publication Analysis
<p>Examination and Evaluation</p>	<ul style="list-style-type: none"> • Formative and Summative • Paper discussion sessions • Remedial drills for low performers • Feedbacks from external examiners • Assessment: DOPS, MiniCEX, OSCE / OSPE, structured LAQs

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<ul style="list-style-type: none"> • All the stake holders being stationed in different campuses viz. Navi Mumbai and Aurangabad communicate with each other via Video Conferencing in all the Board Meetings • All Video Conferencing is done with the help of CISCO Telepresence S X 20 unit which equipped in the respective Board Rooms. • All the websites are maintained / updated regularly and are under Annual Maintenance Contract with SkyQ Infotech
<p>Administration</p>	<ul style="list-style-type: none"> • All Hospital related activities are automated with HIMS, LIMS, PACS, Pharmacy Software in place. • Attendance is being captured by means of Biometric Sensors / Device at each location and institute. • All the desktops, laptops and Servers are licensed with proper Microsoft Licenses and are protected by Updated Antivirus system. • MGMIHS has an MoU signed with AlmashinesTechnologies which provides a dedicated platform for manageing all the events/ activities related to Alumni.
<p>Finance and Accounts</p>	<ul style="list-style-type: none"> • All the activities related to Fees such Migration Fees, Eligibility Fees etc. are automated and online • For catering the needs of Accounting and Finances, Tally is in place and is updated to its latest version • All the online payments are governed by means of the payment gateway i.e. IDBI Bank Pay Online.
<p>Student Admission and Support</p>	<ul style="list-style-type: none"> • The admission module has been made automated. • Academic Modules are automated with the help of an ERP solution viz. CloudEMS. • Training programs are conducted for faculty and postgraduates to make them familiar in the operation of IBM-SPSS installed in MGM Central Library. • The library and information services activities have been made fully automated using KOHA: ILMS with integrated In/Out system. • 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 • All OT's are connected to the AV rooms.
<p>Examination</p>	<ul style="list-style-type: none"> • Examination Modules have been made fully automated • Modules of the Examination Management System is hosted

on an in-house dedicated server. • The theory/practical evaluation process is automated

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. Prabha K. Dasila Mrs. R. Ponchitra	Second BRICS Nursing Forum - India	Financial Support Including Participation Fee Rs. 3000/- per person - Indian Nursing Council, New Delhi	26489
2019	Ms. Jyoti Chaudhari	International conference on theme Public Health - A workforce for countdown 2020 (SDGs)	MonikakaTopawal a Institute of Nursing, a constituent of CHARUSAT, Changa, Dist. Anand in collaboration with SOCHNI and IIPH, Gujarat, Registration Fee - Rs. 3,500/- Travelling - Rs. 4390/-	7890
2018	Dr. Kulkarni Sadhana	Medinspire Conference, held at D.Y. Patil Medical College, Navi Mumbai	Not Applicable	4050

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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	CME Downst aging of Cervical	Nil	30/07/2018	30/07/2018	51	0

	Cancer					
2018	Nil	Fire Safety	05/01/2019	05/01/2019	0	14
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
HISTOTECHNIQUES-CME	1	28/12/2018	28/12/2018	1
Research Methodology Workshop	1	07/09/2018	09/09/2018	1
Masicon 2019	1	30/06/2019	30/06/2019	1
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
68	68	391	391

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<ul style="list-style-type: none"> • Maternity leave as per regulations • Special leave, Sabbatical leave • Provision of accommodation on campus • Transport facility • Free/subsidized healthcare in MGM Hospitals • Free ships and discounts for deserving students who are sons/daughters/wards of MGM employees and who get admission in its institutions • Advanced salary facility • Facilitation of procurement of loans • Seed money for research activities • Financial assistance for attending conferences / workshops • Rewards for researchers • Recreational social outings • Facilities for Yoga 	<ul style="list-style-type: none"> • Provision of accommodation on campus • Free/subsidized healthcare in MGM Hospitals • Advanced salary facility • Facilitation of procurement of loans • Orientation programmes for nonteaching staff, including computer literacy, accounts, soft skills • Recreational social outings • Facilities for Yoga 	<ul style="list-style-type: none"> • Free/subsidized healthcare in MGM Hospitals • Freeships • Sports facilities • Promotion of UG research activities

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The Institute has both Internal and external financial audit mechanisms in place. The internal audit is carried out by a Chartered Accountant firm, M/s. V. S. Rasal Associates, Aurangabad as appointed by the Board of Management. The internal audit ensures that the overall system of internal control is working effectively. Weaknesses noticed during the course of audit would be reported for necessary compliance. That proper books of accounts and operation of accounting software are being maintained That an adequate system is in place to ensure that goods, works and services are being procured in accordance with proper procurement procedures Adequate records are maintained regarding assets acquired. The audit team also does transaction audit which includes examination of all relevant vouchers of receipts and expenditure as per the cashbook and does compliance audit by which examination of documents as to whether money spent was meant for that expenditure and whether has been sanctioned by the competent authority. The internal audit ensures that proper tendering and other purchase procedures are followed and various financial norms are followed in payments made and expenditure incurred. The Internal audit team provides details of serious audit observations, such as ineligible expenses, major lapses in internal controls, procurement procedures not followed, incorrect information submitted for reimbursements, difference between cash drawn and expenditure reported, procedural lapse, accounting lapse, accounting books records not maintained etc. External audit is carried out by M/s. Ashok Patil and Associates, Chartered Accountants, as approved by the Board of Management. Their teams carry out audit once a year. They visit all Units and check and vouch all receipts and payments : whether Expenditure has been incurred in accordance with the framed guidelines, as per established procedures/system Whether Due Diligence has been exercised in procurement of goods and services Whether Funds have been utilized within the budgetary provisions and for the purpose for which they were meant Whether strong internal controls/checks/systems are in place for monitoring the expenditure Whether applicable statutory requirements have been complied with Whether Strong Systems are in place for process of approvals and payments Whether Expenditure has been incurred within the delegation of financial powers defined by the institute from time to time Whether Proper records have been maintained and documents have been kept in the secured form. Whenever there are any major findings / objections in the audit reports, the same has to be reported to the Finance Committee which shall in turn recommend suitable actions and resolutions that are to be implemented to the Board of Management. Whenever minor errors of omissions and commissions are pointed out by the Audit team, they are to be immediately corrected / rectified and precautionary steps are also to be taken to avoid recurrence of such errors in future. Audit Analysis: Based on the comments and remarks received from the auditors during the course of their audit, immediate corrective actions are being taken for resolving the points raised by them.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
JP Brothers Medical Publishers	15865	Sponsorship
View File		

6.4.3 – Total corpus fund generated

243229000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	Academicians (eminent experts, Vice chancellors from reputed universities)	Yes	Vice Chancellor, Registrar, IQAC Coordinator
Administrative	Yes	Academicians (eminent experts, Vice chancellors from reputed universities)	Yes	Vice Chancellor, Registrar, IQAC Coordinator

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

- College Councils
- Three tiered IQAC
- Financial and Administrative autonomy
- Student representation on various Committees

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

- Regular parent teacher meetings are organized
- Feedbacks from parents analysed and corrective measures taken if required
- Parent's involvement is encouraged in social and community activities of medical college hospital

6.5.4 – Development programmes for support staff (at least three)

- Basic Life Support courses
- Fire Safety drills
- Disaster Management
- Good Laboratory Practices
- Soft Skills
- Statistics
- Computer Skills

6.5.5 – Post Accreditation initiative(s) (mention at least three)

- Promotion of Gandhian philosophy amongst faculty and students
- Augmentation of Organ Transplant Program
- Library and Examination Section automation

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	Yes
d) NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2019	Bioethics E-poster and Essay competitions	06/04/2019	06/04/2019	20/04/2019	73
2019	Mechanics of question paper setting	21/06/2019	21/06/2019	21/06/2019	148

2018	Integrated Teaching	01/07/2018	09/07/2018	30/06/2019	11036
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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender Equity Program	21/05/2019	21/05/2019	23	6
International women's day celebration	08/03/2019	08/03/2019	198	8
Lecture on gender sensitisation for teachers at Dyanda School Pokhari	15/03/2019	15/03/2019	92	58
Lecture on G. S. at Sanjay group of industries Waluj ABad	15/03/2019	15/03/2019	40	0
KnockOut - We Are Nice Until The Match Begins	19/07/2019	19/07/2019	68	51
Lecture on gender issues and women's health for executives at Skoda, Chikalhana Abad	15/03/2019	15/03/2019	20	0
Gender Equity Program-ABD	15/03/2019	15/03/2019	80	70
Gender Harrasment	19/04/2019	19/04/2019	42	4
Gender Senstization	12/06/2019	13/06/2019	59	53
Gender Senstization	23/04/2019	23/04/2019	11	13
Gender Senstization industrial areas	08/03/2019	08/03/2019	26	16

Gender Sensitization rural areas	09/03/2019	09/03/2019	37	46
Gender Sensitization-ABD	15/03/2019	15/03/2019	80	70

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
<ul style="list-style-type: none"> • Solar energy • Sensor based energy conservation • Wheeling to the Grid • Biogas plant • Use of LED bulbs/ power efficient equipments Percentage of power requirement of the University met by the renewable energy sources 17.5

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	1
Ramp/Rails	Yes	3
Braille Software/facilities	Yes	1
Rest Rooms	Yes	1
Scribes for examination	Yes	1
Special skill development for differently abled students	Yes	1

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	1	1	07/07/2018	3	Training for trauma care and emergency	Due to proximity to Sionpanel national highway, the institute receives a large number of trauma cases on a daily basis. This offers excellent	394

						opportunities for practical training of students in trauma care and emergency medicine.	
2018	5	5	05/08/2018	3	Collaborations for community benefit	1)To provide optimal health for special children at Swayam Siddha Goverened Viveksingh Special School, Aurangabad , 2)GeBBS Foundation- Free health check up for ladies 3)Solapur Screening Camp for cleft and craniofacial surgery	109
2018	3	3	15/08/2018	3	Patriotic Initiatives	1)Independence Day 2)Republic Day 3)Surgical Strike	816
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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Rules and Regulations, MGMIHS	27/07/2018	Student induction programmes, College Council meetings, AntiRagging squads, UNESCO Chair Bioethics activities

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
PG Induction program (MD/MS)	02/05/2019	03/05/2019	60
Ethical issues in medical research	28/06/2019	28/06/2019	75
College council meeting of University Department of Prosthetics Orthotics	15/06/2019	15/06/2019	30

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Waste recycling system
- Hazardous chemicals and radioactive waste management
- Rain water harvesting
- Borewell /Open well recharge
- Construction of tanks and bunds
- Waste water recycling
- Maintenance of water bodies and distribution system in the campus
- Restricted entry of automobiles
- Battery-powered vehicles
- Pedestrian-friendly pathways
- Ban on use of Plastics
- Landscaping with trees and plants

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. Innovative practice for enhancement of water conservation and sanitation management. Objectives of the practice 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 Unnat Bharat Abhiyan (UBA) and Swacchta Action Plan (SAP) The context 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. 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. 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. Swacch Campus Ranking Third in 2018 First in 2019 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. Meticulous planning. Coordination for sanitation related activities in outlying villages. Inculcating correct attitude among local villagers for community involvement in sanitation activities. 2. 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 RD outputs, technology transfer and entrepreneurship. To create research-driven skilled manpower. To support start-ups including mentoring and infrastructure. The context It is observed that 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. The Practice To place emphasis on interdisciplinary scientific platforms, MGMIHS has carried out student centric and innovation-driven research initiatives. Several policies have been framed such as Incubation policy, Consultancy policy, Intellectual Property Rights (IPR) policy, etc. It is focused on interdisciplinary research in the

areas of Tuberculosis, Malaria, Diabetes, Cardiovascular, Obesity, Ocular diseases etc. Infrastructure facilities MGMIHS OMICS Research Centre (is SIRO recognized) : 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 interdisciplinary research. MGM Centre of Human Movement Science: established in collaboration with Indian Institute of Technology, Bombay and International Society of Biomechanics (USA) (ISB) to address 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's Innovation 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, prosthetics and orthotics, nursing, biomedical sciences etc. In the ideation stage, fourteen projects were proposed by faculties in domains such as bioprocesses, bioproducts, biomedical device, nutraceuticals, pharmaceuticals, diagnostics, waste management and health care products. The outcome of the proposed projects targets the development of innovative novel product, process and technology. For sensitization on innovation, the Centre has organised guest lecture on IPR, Workshop on "Innovation and Intellectual Property Rights", Idea Competition and Design competition. 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 management. Motivation of stakeholders Faculty of various disciplines were required to adjust their academic/clinical responsibilities to participate in joint efforts. Needed more efforts to enhance the extramural funding to promote research innovation from government non-government agencies. Enhance the international research collaborations.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://www.mgmuhs.com/NAAC/c7/7.2/7.2.1/7.2-weblink-table.pdf>

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and

MGMCHMS has identified the 'Integration of human movement science in Indian healthcare' as an area of distinctiveness of priority thrust of institute.

Infrastructure and Manpower: It is spread over 2116 sq feet area, equipped with robust state of art technology for comprehensive evaluation of human motion including 12-camera-system(Vicon,UK) for kinematic three force platforms(AMTI,USA) for kinetics FitmateMed(COSMED,Italy) for metabolic cost and Surface-EMG(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 contributes to academic, clinical and research activities of MGMCHMS assisted by Master's and PhD scholars in Physiotherapy and engineering.

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

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

Research: The thrust of inter-disciplinary collaborative research at MGMCHMS resonates with India's national health priority to reduce rising burden of NCDs by exploring simple, life-style modification solutions for health-promotion and technology design to support 'Make in India'. Thrust areas for research include biomechanical exploration of ground level activities, Yogasanas, traditional sports and dance forms and clinical rehabilitation of neuro-musculoskeletal conditions for e.g. osteoarthritis, cerebral palsy, diabetic neuropathy and mathadi laborers and technology design. Projects are funded by MGMCHMS, Department-of-Biotechnology, NSERC, Canada and Shastri-Indo-Canadian Institute.

Collaborative inter-disciplinary research resulted in 13 scientific publications.

Validation of Technology: The Centre has validated 5 devices in motion-technology out of which two were awarded for scientific innovation at national(BIRAC) and international level respectively.

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

IPR: Interdisciplinary collaborative research work has led to 2 patents filed and 1 tool is copyrighted.

Collaborations and Linkages: MGMCHMS works with distinguished researchers from health and engineering disciplines nationally(IITBombay, IITMadras, IISc,Bangalore SVYASA, Bangalore KaivalyaDhama Yoga-Institute, Lonavala Sancheti College of Physiotherapy, Pune Ratnanidhi Charitable Trust-Mumbai) and internationally (Cardiff University,UK International Society of Biomechanics,Pennsylvania,USA University of Sydney,Australia World Spine Care)from Government and Non-Government-Organizations to integrate human movement science in Indian healthcare, to address unmet needs.

Uniqueness: One of the exclusive feature of MGMCHMS is it's interdisciplinary approach adopted to train healthcare (MPT, PhD) and engineering (MTech) research scholars of national premier Government engineering and technology institutes(e.g.IITs,NITs,BARC) 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 to patients from India, Bangladesh and Germany and validating technology developed by industries.

Future plan: To develop MGMCHMS as an international Centre of Excellence in Human Movement Science and as a National international Centre for Validation of Technology pertinent to motion.

Provide the weblink of the institution

<https://www.mgmsopnm.edu.in/humanMovementSciences.html>

8.Future Plans of Actions for Next Academic Year

- To increase Government Research Funding agencies for extramural funds.
- Patents and copyrights with improvement technology transfer and commercialization.
- Scope for increasing National and International collaborations.
- Scope for strengthening Alumni Network.
- Encourage faculty to take up PhD program.
- Medical Tourism at Navi Mumbai campus as new Airport is coming nearby.
- Up-gradation of Trauma-care facilities at Navi Mumbai campus.
- Up-gradation of Organ-transplant facility at Aurangabad campus.
- Initiation of cancer treatment facility at Aurangabad campus.
- Initiation of more value added courses on Gandhian philosophy.
- Motivation of younger faculty to choose an academic career.
- Attract post-graduate students in non-clinical branches of medicine.