YEARLY STATUS REPORT - 2022-2023

Part A	
Data of the Institution	
1.Name of the Institution	Madhav Institute of Technology & Science
• Name of the Head of the institution	Dr. R.K. Pandit
• Designation	Director
• Does the institution function from its own campus?	Yes
• Phone No. of the Principal	07512409300
• Alternate phone No.	07512409354
• Mobile No. (Principal)	9826254902
• Registered e-mail ID (Principal)	director@mitsgwalior.in
• Address	Gola Ka Mandir
• City/Town	Gwalior
• State/UT	Madhya Pradesh
• Pin Code	474005
2.Institutional status	
• Autonomous Status (Provide the date of conferment of Autonomy)	16/03/2017
• Type of Institution	Co-education
• Location	Urban

• Financial Status	**Grants-in aid**
• Name of the IQAC Co-ordinator/Director	**Dr. Pratesh Jayaswal**
• Phone No.	**07512409231**
• Mobile No:	**9826561725**
• IQAC e-mail ID	**iqac@mitsgwalior.in**
3.Website address (Web link of the AQAR (Previous Academic Year)	https://web.mitsgwalior.in/index.php/naac
4.Was the Academic Calendar prepared for that year?	**Yes**
• if yes, whether it is uploaded in the Institutional website Web link:	https://web.mitsgwalior.in/academics/academic-calendar

5.Accreditation Details

Cycle	Grade	CGPA	Year of Accreditation	Validity from	Validity to
Cycle 1	**B++**	**2.86**	**2017**	**12/09/2017**	**31/12/2022**
Cycle 2	**A++**	**3.53**	**2023**	**02/08/2023**	**01/08/2028**

6.Date of Establishment of IQAC	**27/12/2016**

7.Provide the list of Special Status conferred by Central and/or State Government on the Institution/Department/Faculty/School (UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC, etc.)?

Institution/ Department/Faculty/School	Scheme	Funding Agency	Year of Award with Duration	Amount
Institution	**TEQIP-III**	**NPIU/MHRD, New Delhi**	**11/09/2017**	**165000000**
Institution	**DST-FIST (Level 0)**	**DST, New Delhi**	**16/08/2019**	**4940000**
Institution	**NTTM**	**Ministry of Textile**	**03/11/2022**	**8800000**

8.Provide details regarding the composition of the IQAC:

• Upload the latest notification regarding the composition of the IQAC by the HEI	View File	
9.No. of IQAC meetings held during the year	04	
• Were the minutes of IQAC meeting(s) and compliance to the decisions taken uploaded on the institutional website?	Yes	
• If No, please upload the minutes of the meeting(s) and Action Taken Report	No File Uploaded	
10.Did IQAC receive funding from any funding agency to support its activities during the year?	No	
• If yes, mention the amount		

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

• Total 12025 credits transferred so far for 243 courses offered to 1877 students till December 2022 • NPTEL chapter scored highest 65 number of 'Star Certificates' among all chapters in India, for July-December 2022 • Degree with Honours was awarded to 30 students and minor specialization in CSE to 03 students • Number of documents (112) and citations (1277) in Scopus • Full final semester internships were completed by students in software sector (50%), product development (20%), experimentation based (21%), testing work (6%) and hardware based (3%) • Research Internship Programme started for pre-final year students • In-house initiative to increase the faculty competencies in the upcoming areas • MoU signed with Madhya Pradesh Police Training Research Institute, Bhopal to work on road traffic systems using AI, ML, IoT, and DS • In Scopus 112 number of published documents and 1277 citations were listed • 4th International Conference on "Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET-2021) was organized • Hackathon-2022 was conducted in collaboration with Microsoft IDS Hyderabad, Cadre Design, Ansys and Dhiyotech • Conduction of faculty feedback through the IMS mechanism was initiated • Conduction of 'Skills Enhancement Program' for the pre-final year students • 'NEP-2020 Action Plan' executed; out of the 22 targeted parameters for year 2024-2025, 20 achieved • The exit

survey index calculated using an 18-parameter feedback from passing out students increased from 2.97 in 2021 to 3.48 in 2022, on a scale of 4.0 • Recruitment drive for appointing 25 quality faculty members • Registration portal for 'Novel Engaging Course (NEC)' developed • Provision of 'Minor Degree in Research' approved by the Academic Council • Faculty Quality Index (FQI) developed using 16 parameters and 51sub-parameters to identify the need for upskilling and upscaling • Academic Bank of Credits (ABC) scheme established • Pedagogical targets were set by the BoG after conducting workshop on "Market Driven Analysis for Dynamic Curriculum Development • The Institute celebrates 65 years of excellence in Technical Education

12.Plan of action chalked out by IQAC at the beginning of the academic year towards quality enhancement and the outcome achieved by the end of the academic year:

Plan of Action	Achievements/Outcomes
Semester closing programme	Successfully Implemented
Faculty competencies in upcoming areas: Faculty Training in Data Science	Training Programme is undergoing
Increase the faculty competencies in Project Management and Financing by the Civil Engineering Faculty	Training Programme successfully completed
Conduction of Orientation Programmes for II to IV year students	Successfully Implemented
ICAO Partner	Become ICAO 23rd TRAINAIR PLUS Programme (TPP) Partner in world and the 1st TPP Partner in India.
Conduction of courses in collaboration with Industry Expert: 2022-23	Collaborated teaching with industry experts is now a part of teaching-learning activities
Credit transfer through MOOCs	Successfully Implemented
Daily class monitoring	Initiated using IMS from 1st August 2022
Research Internship under institute faculty mentors for pre-final year students during June 2022	Research Internship programme is now a part of curriculum
Research Grant from National Agency	R&D Project under National Technical Textiles Mission (NTTM)
Celebration of commemorative days at the institute	Regularly Conducting the commemorative days
Novel Engaging Courses (NEC)	NEC is a part of curriculum
Role based access control (RBAC) website of the institute	Launched the role based access control (RBAC) website of the institute on 19th September 2022
An International Conference	4th International Conference on Sustainable and Innovative

	Solutions for Current Challenges in Engineering & Technology (ICSISCET 2022) Technically Sponsored by Soft Computing Research Society, during November 19-20, 2022 in blended (online/in-person) mode was conducted.
Workshop on NEP	NAAC sponsored two-day workshop on "Curriculum Development for the Effective Implementation of NEP-2020" on 3rd -4th September 2022 was organized
Result analysis, Question paper analysis, review of the Examination Conduction	Exam reforms are implemented
Constitution of "Equal Opportunity Facilitation Cell (EOFC)? of the Institute.	The EOFC is working effectively
Development of Faculty Quality Index	A system of Faculty Quality Index was developed and implemented successfully
National Education Policy-2020	Plan of National Education Policy-2020 prepared and executed
Skill Enhancement Programme	The Skill Enhancement Programme was implemented and students are taking advantage of the scheme

13.Was the AQAR placed before the statutory body?	Yes

- Name of the statutory body

Name of the statutory body	Date of meeting(s)
Executive Committee of the Board of Governors	08/08/2023

14.Was the institutional data submitted to AISHE ?	Yes

- Year

Year	Date of Submission
2021-2022	16/01/2023

15.Multidisciplinary / interdisciplinary

The NEP action plan from 2020-2021 to 2023-2034 is available at https://web.mitsgwalior.in/images/files/IQAC/initiatives/MajorQualityInitiatives.pdf

[1]. Vision Plan for transformation into a holistic multidisciplinary institution

? The flexible curriculum was implemented in the institute for 2017-2021 batch onwards.

? The institute conducted a number of meetings of senior faculty members, HoDs and the ADC of the institute to discuss the plan of action for integration of the basic philosophies of NEP-2020 into the curriculum.

? An institute level committee was then constituted to prepare the 'implementation Policy of NEP-2020'.

? The committee then presented their ideas in a meeting on 6th April 2021.

? A strategic plan on NEP-2020 was prepared and presented in the meeting of the H.R. committee on 03.07.2021. The meeting was chaired by Chairman, H.R. Committee of MITS & then Chairman of National Board of Accreditation (NBA) of the institute, in the presence of experts from IIT & NITs.

? The action plan was revised and then the "NEP-Implementation Policy" was presented and approved in the meeting of the BoG on 31st July 2021, vide Item no 1.

? The institution integrated 'NEP-Action Plan' and implemented it to transform itself into a holistic multidisciplinary institution, for 2021-2022 session.

[2]. Integration of humanities and science with STEM and provide the

detail of programs with combinations

? In addition to the regular credit courses, there is a provision of mandatory audit courses (MAC), value added courses, and open elective courses from Science and Humanities.

? Mini-projects are part of curriculum to enhance project based learning in STEAM courses.

[3]. Credit-based courses and projects in the areas of community engagement Environmental education and novel value-based courses have credit weightage. Credit courses are offered on NCC and NSS also. Students are encouraged to undertake projects on societal issues.

[4]. Institutional plan for offering a multidisciplinary flexible curriculum with multiple-entry/exit In the action plan, at point no 9 there is provisioning to offer certificate, diploma & Bachelor degree with curriculum development support from institution of eminence, academia and industry persons 9, 13 and 16 programmes are proposed from 2022-23 onwards for consideration in addition to the existing lateral entry scheme.

[5]. Enhancement of multidisciplinary research for society's most pressing issues and challenges

? Point no 14 in the action plan describes MoUs and Collaborations for Research Internship. The final year students will be doing "Degree with Research" with industry or academic support from 2022-2023 batch onwards, norms for which are already drafted.

? Point no 14 mentions provisions for travel support for visiting other Research Organizations and Institutions for multi-disciplinary project

[6]. Good practice/s of the institution to promote Multidisciplinary/interdisciplinary approach in view of NEP 2020

? Institute is providing B.Tech in parent discipline with Minor Specialization.

? About 10% credits are from interdisciplinary elective and novel value added courses.

? Interdisciplinary Courses such as 'Data Science' and 'AI & ML' are being offered to core branches for their multi-disciplinary

applications in projects etc.

? Mandatory interdisciplinary 'In-House Internships' are being provided to students.

16.Academic bank of credits (ABC):

Initiatives taken by the institution to fulfil the requirement of Academic bank of credits as proposed in NEP 2020 As per the National Education Policy 2020, MITS has onboard Academic Bank of Credits (ABC) scheme established on the lines of the National Academic Depository (NAD), in the month of May 2022 through registration on NAD portal. ABC will enable students to register or commence credit transfer, the final outcomes of credit redemption and issuance of certificates, as well as the compilation of award records, as administered by institute via the NAD Platform. The institute has nominated Dr. Sunita Sharma, Dy Controller Exam as Nodal Officer and Mr. Punit Johari, Assistant Controller, Exam is Verifying Officer of NAD. To begin with, the institute has prepared and uploaded the data of 2021 (2431 No. of records) admitted batch (I and II semester) students for the generation of digital marksheets. The institute data will be live on NAD portal very soon and marksheets will be available in NAD account of the students of 2021 admitted batch. Institute has also generated ABC id of 2021 admitted batch students for effective implementation of ABC policy. b) Whether the institution has registered under the ABC to permit its learners to avail the benefit of multiple entries and exit during the chosen programme? The institute is verified under the ABC and will be able to avail the benefit of multiple entries and exit during the chosen program as soon as the affiliating university guidelines will be available. c) Describe the efforts of the institution for seamless collaboration, internationalization of education, joint degrees between Indian and foreign institutions, and to enable credit transfer. Presently, the institute has collaborated and MOU between the MITS and Symbiosis Institute of Management has been signed for joint MBA degree program through credit transfer system in some courses. Also a certificate course on Human Resource Management in Aviation Industry will be offered in collaboration with International Civil Aviation Organization, Canada. d) How faculties are encouraged to design their own curricular and pedagogical approaches within the approved framework, including textbook, reading material selections, assignments, and assessments etc. The institute faculty is encouraged to design the curriculum of the courses in align with the current demand of the industry through Board of Studies meeting and final approval from Academic Counsel biannually. The institute has adopted Multiple Mode Teaching

Learning Pattern (MMTLP) to identify innovative teaching modes for different types of syllabus content, enhance skill development and include latest developments in the domain catering to the fast changing technological scenario. e) Describe any good practice/s of the institution pertaining to the implementation of Academic bank of credits (ABC) in the institution in view of NEP 2020. The institute has registered for Academic Bank of Credit in view of NEP 2020 as early bird and started working for transferring marksheets in NAD account of students admitted in year 2021.

17.Skill development:

[1]. Efforts for strengthening the vocational education and soft skills of students: According to the guidelines of the National Skills Qualifications Framework the curriculum was designed to have an emphasis on 'skill development'. ? Provision of 'skill based mini-project' for enhancing domain specific as well as multi-disciplinary application of the knowledge gained. ? Mechanism to evaluate the skill part through PPT presentations and report submissions. ? Faculty Induction Programmes are conducted for domain specific, pedagogical and multi-disciplinary skill enhancement. [2] Programmes to promote vocational education ? in-house summer internships for skill development of students in multi-disciplinary domains from which the students can choose. A mandatory soft-skills development summer internship of 90 hours for II year students. ? On-the job internship of 150 hours after VI semester. ? Full VIII semester internship placement at relevant industry with industry mentor or research project under institute mentor. ? 11% credits assigned for projects & internships where domain related real-world, societal problems are selected. [3] Value-based education to inculcate positivity amongst the learner: ? courses on 'Universal Human Values and Ethics", and "Indian Constitution & Traditional Knowledge". ? The institute has many clubs like "Holistic Health Club", "Yoga Club", "Dance and Music Clubs" etc. which organize lectures by prominent persons and invite experts for workshops on "Sudarshan Kriya" etc. ? meditation club which conducts meditation sessions on alternate days. ? SELP programmes of "Art of Living" are also conducted from time to time. [4] Enlist the institution's efforts to: i. Design a credit structure to ensure that all students take at least one vocational course before graduating. The curriculum has provision for mandatory 'Novel value added Courses" from III to VI semester, and there are total 4 credits. Each student has to opt for 01 course in each semester. ii. Engaging the services of Industry veterans and Master Crafts persons to provide vocational skills and overcome gaps vis-à-vis trained faculty provisions. Partial teaching of at least one course by industry expert. iii. To offer vocational

education in ODL/blended/on-campus modular modes to Learners. ? The students have to opt for mandatory MOOCs from recognized platforms for some of their open and departmental electives with credit transfer provision. Thus 9-10% of the credits are earned through ODL platform. ? Professional development component in the VIII semester where credits are earned for additional certificates from MOOCs done by students. iv. Skilling courses are planned to be offered to students through online and/or distance mode. The institute is a centre of IIT Delhi virtual labs. Regular workshops are conducted and students are engaged in virtual labs for some of the experiments. [5] Practice followed for the Skill development in view of NEP 2020. Skill Based Projects for effective learning in lab courses. The assigned credit weightage for the skill based project is 20% of the lab course. The faculty design the problems for the students and ensure that students' higher order thinking skills are developed.

18.Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course)

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a) Delineate the strategy and details regarding the integration of the Indian Knowledge system (teaching in Indian Language, culture etc,) into the curriculum using both offline and online courses. ? As per NEP guidelines, to promote Holistic Education and Informal Knowledge the "Novel Engaging Courses" (to promote Holistic Education and Informal Knowledge) are the part of curriculum since 2020 admitted batch. As of now, more than 80 NEC Courses have been introduced, including Performing Arts, Physical Health, Health & Hygiene, Arts & Crafts, Language Skills, Home Science under the mentorship of faculty members. Some of NEC courses related to language, culture are: • Hindi Language Skills, • crafts practices in India, • Know your country (History, Culture, Tradition) • Bhagwat Gita ? There are courses on 'Universal Human Values and Ethics", and "Indian Constitution & Traditional Knowledge". ? The institute has many clubs like "Holistic Health Club", "Yoga Club", "Dance and Music Clubs" etc. which organize lectures by prominent persons and invite experts for workshops on "Sudarshan Kriya" etc. ? There is meditation club which conducts meditation sessions on alternate days. ? SELP programmes of "Art of Living" are also conducted from time to time. b) What are the institutions plans to train its faculties to provide the classroom delivery in bilingual mode (English and vernacular)? Provide the details. The Hindi is commonly used language at Gwalior and nearby places, therefore the faculty and staff members are encouraged and trained to deliver in classrooms in bilingual mode. The Induction programmes for newly recruited faculty are conducted regularly. The faculty members are

also encouraged to participate in pedagogical training programmes. c) Provide the details of the degree courses taught in Indian languages and bilingually in the institution. The various programmes running in the Institute are taught in Hindi & English language. d) Describe the efforts of the institution to preserve and promote the following: i. Indian languages (Sanskrit, Pali, Prakrit and classical, tribal and endangered etc.) • The Institute is offering a Novel Engaging Course on Bhagwat Gita to promote the Sanskrit Language and to promote lessons of Bhagwat Gita. ii. Indian ancient traditional knowledge • The Institute has several clubs, society and NSS unit. The member students are engaged in Indian ancient traditional knowledge activities. iii. Indian Arts • Indian Constitution and traditional Knowledge is offered for all the students under Mandatory Audit Course Category. • The Architecture department of Institute is engaged in the promotion of India Arts through design and drafting. iv. Indian Culture and traditions. • The subject Indian Constitution and traditional Knowledge is used to taught about the importance of Indian cultural and traditions. e) Describe any good practice/s of the institution pertaining to the appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course) in view of NEP 2020. • The Institute has developed Online Course on Indian Constitution and Traditional Knowledge. • Subjects are taught bilingually • Dance & Garba Completions are organized. • Commemorative days are organized in the Institute.

19.Focus on Outcome based education (OBE):Focus on Outcome based education (OBE):

a) Initiatives to transform curriculum towards Outcome based Education (OBE)? ? The faculty has been trained in National Level courses and workshops on OBE since last seven years. ? The institute has a team of OBE coordinators and one senior professor as OBE manager. ? There is a practice at the institute to conduct in-house sessions by the trained faculty to train the remaining faculty members in CO writing, question paper mapping with COs and Bloom's levels, PO attainment through direct and indirect attainment etc. ? The curriculum is developed based on the Course Outcomes identified according to and in-line with NEP-2020, emphasizing the skills. ? The course content & COs are published on the website and shared with stokeholds. ? The CO attainment, development of the CO-PO matrix, course articulation metrics with mapping proper levels (1,2,3) etc. is monitored by the Board of Studies(BoS), twice a year. ? The BoS also reviews the CO statements, CO-PO targets & attainment, gap analysis along with suggested changes in curricula, teaching/evaluation practices etc. ? The scheme has been modified to map all the POs with proper strength by adding different components.

? Each course has components which map with knowledge (PO1-PO4), Skills (PO-5-PO7, PO11) and attitudes (PO8, PO9, PO12) with different strengths. b) Outcome based education in teaching and learning practices ? The institute follows a student centric teaching-learning model. ? The institute uses a MOODLE (Modular Object-Oriented Dynamic Learning Environment) which is used extensively for uploading all teaching material notes, assignments etc. ? Weekly quizzes are conducted on MOODLE. Assignments are also submitted and evaluated on MOODLE. ? The faculty has been trained to write COs using Bloom's taxonomy, prepare question papers mapping with Bloom's levels and ensuring CO coverage through various assessment methods. ? The lecture plans are prepared using the "Multiple Mode Teaching-Learning Pattern" (MMTLP). The idea is to target the attainment of LOTs as well as HOTs. ? The focus is not just on content delivery but on its application c) Good practice/s pertaining to the Outcome based education (OBE) in view of NEP 2020. In-line with the NEP concept of "Move Away from high-stake examinations" and unburden the students, examination reforms are implemented and multiple methods of evaluation are in place (Multiple Mode Logical Pattern Examination system (MMLPE). Proper guidelines are in place and end-term examinations are conducted using (i) Traditional pen-paper mode (ii) MCQ mode and (iii) Assignment plus oral mode. This pattern gives the teachers a lot of flexibility to assess the learning outcomes of students and evaluate their ability to "Apply", "Analyse", "Evaluate" and "Design/Create".

20.Distance education/online education:

a) Courses through ODL mode in the institution. ? The institute has implemented 'Credit Transfer from MOOCs" policy for the 2017-2021 batch onwards. ? The Institute NPTEL local Chapter ranks among the top in the nation due to the large number of faculty and students who get "Topper", "Elite", "Gold" etc. certificates every semester. ? About 9% of the total credits are presently earned through MOOCs. ? The institute has already surpassed the target set for 'credit transfer' in the NEP Action Plan. ? Some of the courses are taught in ODL mode and the students can attend from their homes. The lecture recordings are uploaded on MOODLE. ? The 'Skill Enhancement Programme" of the institute and the mandatory audit courses and offered on-line. b) Development and use of technological tools for teaching learning activities and institutional efforts towards the blended learning. ? The institute faculty also prepare MOOCs in the state-of-the-art Digital Studio of the institute, permitting "anytime anywhere' learning format. Virtual labs are also used. ? The weekly quizzes are attempted by the students from the comforts of their homes. ? The provisioning of 'Blended Teaching Learning'

under various modes is in place as per the nature of the course. ? Course wise 'Mode of Teaching' is also specified in the scheme structure. On-line as well as off-line teaching is provisioned. The % of each component is calculated and recorded in the scheme. ? There is complete flexibility within this framework and a faculty can take students outside the class, or give some assignments to enhance the learning outcomes. (c) Good practice/s of the institution pertaining to the Distance education/online education in view of NEP 2020. ? Virtual Labs in collaboration with IIT, Delhi virtual labs ? Digital Studio used for MOOC development by the faculty ? NPTEL Local Chapter of the institute has ranked 2nd among all active chapter in the country during Jan-June 2022 and 25th in July-Dec2022. The Chapter has maintained its position among the top 100 chapter since 2018.

Extended Profile

1.Programme

1.1	**27**
Number of programmes offered during the year:	

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.Student

2.1	**5244**
Total number of students during the year:	

File Description	Documents
Institutional data in Prescribed format	[View File](#)

2.2	**1077**
Number of outgoing / final year students during the year:	

File Description	Documents
Institutional Data in Prescribed Format	[View File](#)

2.3	**10188**
Number of students who appeared for the examinations conducted by the institution during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.Academic

3.1	**83**
Number of courses in all programmes during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.2	**154**
Number of full-time teachers during the year:	

File Description	Documents
Institutional Data in Prescribed Format	View File

3.3	**263**
Number of sanctioned posts for the year:	

4.Institution

4.1	**926**
Number of seats earmarked for reserved categories as per GOI/State Government during the year:	

4.2	**59**
Total number of Classrooms and Seminar halls	

4.3	**615**
Total number of computers on campus for academic purposes	

4.4	**1510.30**
Total expenditure, excluding salary, during the year (INR in Lakhs):	

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The Institute has been granted academic autonomy from RGPV, Bhopal (State Technical University) since 2002 and UGC has also given the autonomous status from 2017. As a consequence, the curriculum is being revised on regular basis through Board of Studies (BoS), which is confirmed by the Academic Council. Further, institute has implemented Flexible Curriculumsince2017-18andalso concluded its action plan for the effective integration of National Education Policy 2020.

Aligning with the local, regional, national and global needs, students are fosters with the required domain knowledge, skills and attitude by considering the following factors: (i) Reports of various reputed organizations, (ii) Model curriculum prescribed by AICTE,(iii) Mapping with Program Outcomes, (iv) Suggestions by industry experts and alumni, (v) Syllabi of various competitive exams.Curricula addresses the following national missions: Digital India(Incorporation of MOOCs & digital pedagogy), Unnat Bharat Abhiyan, Women Empowerment, and Skilling India (provision of Skill Based Mini Project).

The curriculum and relating practices are in line with the Programme Outcomes, Programme Specific Outcomesand Course Outcomesof the various Programmes.The Institute observes the attainments of PEO, PO& PSO for respective programmes which in turn relates to Vision and Mission of the Institution and Department as well.

File Description	Documents
Upload additional information, if any	[View File](#)
Link for additional information	Nil

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

11

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	**No File Uploaded**

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

555

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	**No File Uploaded**
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

140

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

27

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

To equip future engineers as architects of a thriving nation, curriculum must go beyond technical expertise. Integrating moral grounding, ethical conduct, sensitivity to social challenges, and sustainable practices empowers them to build a better tomorrow.

While preparing the syllabi at MITS all these above considerations are properly addressed. The mandatory courses like Energy Environment Ecology & Society, Biology for Engineers (Mandatory Audit Course), Cyber security, Ethics,Economics, Entrepreneurship & Management, Indian Constitution & Traditional Knowledge (Mandatory Audit Course), Disaster Management, Intellectual Property Rights, Project Planning & Financing, having orientation towards the above issues were offered to all the undergraduate students. The additional mandatory courses offered is Universal Human Values & Professional Ethics(UHVPE).

The institute's gender sensitization cell is making 'respectful and valued campus' a reality through impactful activities, poster competitions, and thought-provoking sessions that empower students to be agents of change.

To ensure the holistic development of students, Novel Engaging Courses (NECs)in diversified areaswith the arrangement of four credits have been included in the curriculum w.e.f. 2020-2021 batch. The courses are Environment protection, Bhagwad Gita- An Introduction, Know Your Country: History, Culture & Traditions, Preliminary Journalism Skills, Sculpture Making, Innovation: From Creativity to Entrepreneurship.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	No File Uploaded

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

166

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	No File Uploaded
Any additional information	No File Uploaded

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

3962

File Description	Documents
List of students enrolled	View File
Any additional information	No File Uploaded

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1856

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	No File Uploaded

1.4 - Feedback System

1.4.1 - Structured feedback and review of the syllabus (semester-wise / year-wise) is obtained

A. All 4 of the above

**from 1) Students 2) Teachers 3) Employers
and 4) Alumni**

File Description	Documents
Provide the URL for stakeholders' feedback report	https://web.mitsgwalior.in/iqac-mn/feedback-iqac
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	**No File Uploaded**
Any additional information	**No File Uploaded**

1.4.2 - The feedback system of the Institution comprises the following   **A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://web.mitsgwalior.in/iqac-mn/feedback-iqac
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1558

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

633

File Description	Documents
Any additional information	[View File](#)
Number of seats filled against seats reserved (Data Template)	[View File](#)

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institute identifies learners as slow, medium and fast learners, and then adapts different methods to help them achieve their learning goals. The UG students are classified into 3 categories; The fast digital learners are the ones who attended all classes, submitted all assignments and appeared for all weekly quizzes for all courses. The medium level digital learners were those who attended at least one online class per course per week, submitted/appeared for at least 50% of assignments/quizzes. The slow digital learners were those students who were not attending any online classes or attending less than 10% of classes, and who were not submitting assignments/quizzes or submitting/appearing for less than 10 % of assigned/conducted.

A. Action Taken for different categories of Learners

I. Activities conducted for slow learners:

1. Remedial classes
2. Unit wise question bank based on previous year question papers
3. Extra quizzes for practice
4. Extra assignments for practice
5. Virtual labs for better understanding of course

II. Activities conducted for Fast learners

1. Higher level of learning through assignments/ quizzes (GATE/IES/PSU exam based).
2. Virtual labs for better understanding of course
3. Motivation for learning through MOOC and earning SWAYAM/ NPTEL certificate.
4. Motivation for opting minors and honours.
5. Motivation for participation in Hackathon
6. Support in Placements & career growth through workshops and Alumni interaction.
7. Support in higher education & career growth through Research

Internship Scheme and publication of research papers

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2023	4997	174

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Experiential Learning

1.1 Projects

1.1.1 Skill based Mini Projects

1.1.2 Minor Project/Major project/ Dissertation:

1.2 Industry Visits

1.3. Guest Lectures by Industry Experts:

1.4 Field Visits/Survey: Students are taken for field visit to nearby places as per the requirement of the course.

   1. 5 Participation of students in competitions:

1.6. Novel engaging Courses: .

2. Participative Learning Methodologies

2.1 Group activities

2.2 NSS activities

2.3. NCC and Sports Activities: Institute has an independent technical unit of NCC named 3 MP TEC (I).

2.4. Club and Society Chapter Activities:https://web.mitsgwalior.in/life-at-mits/student-activities/societies-clubs

2.5 Summer Internship Programs: Three mandatory internships of 60 hrs, 90 hrs and 150 hrs are conducted for the UG II, III and IVyear students respectively.

2.6 Seminar: Seminar presentations are made by students on assigned topics to enrich their learning experience, communication skill and life long learning.

2.7 Interactive Classes: Flip classes are conducted as per the lecture plan and discussions are made with students on the topic shared in advance.

Problem Solving Methodologies

1. **Creative Problem Solving Course: In UG VII semester, students are asked to deal with current problems of society by proposing innovative solution approaches under the course entitled as Creative Problem Solving.2.**
2. **Research**
3. **Skill Based Mini Project/Minor Project: Skill based mini projects of all practical based courses and Mini projects are designed to solve open ended problems.**
4. **Quiz and Assignments**
5. **Conduction of Tutorial Classes**

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and learning

The faculty members are combining technology with traditional mode

of teaching to make the teaching effective and efficient to students by using following ICT facilities:

1. Projectors-

2. Interactive Boards

3. Desktop and Laptops

4. SWAYAM Prabha Connection

5. MOOC centre

6. Online platforms viz, Zoom, Google Meet, Microsoft Team,

7. MOOC Platform (NPTEL, Coursera,)

8. Digital Library resources

Use of ICT by Faculty for teaching learning activities:

The practice of using ICT enabled tools as mentioned above have been adopted by faculty to enhance teaching-learning process through following ways:

1. Classes through Online platforms using Zoom / Google meet applications
2. LMS (MOODLE)
3. PowerPoint presentations
4. Online Industry Connect
5. Online quiz- Faculties prepare online quiz for students after the completion of each unit on MOODLE. .
6. Recorded Video lectures
7. Online competitions- Various club activities, finishing school activities, Project presentations,, paper presentations etc. are being organized with the help of various Information Communication Tools.
8. Conduction of Seminars, Workshops, conferences- ICT tools are used for conducting workshops Seminars, Workshops, Conferences, STPs, FDPs etc.
9. Conduction of Virtual labs: During the pandemic years, the labs were conducted through virtual mode by recording the experiments and then demonstrated the same with the students during practical classes. The link of recorded practical classes is as follows:https://www.youtube.com/@mitselectricalengineeringd552

4

10. **Mentoring MOOC Courses:** One faculty mentor per 60 students for a course is assigned to take mentoring sessions

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://mitsgwalior.in/ictmits.htm
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

122

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Dean, Academics of the institute prepares Academic Calendar in the beginning of the Academic year with the consultation of Director, Dean, Student Welfare and HoDs . Academic calendar contains the relevant information regarding the semester registration, commencement of teaching session, vacations, dates of mid semester examination , end semester examination,proficiency test, internship and academic audits etc. The academic calendar is prepared so that teachers and students should know all the activities well in advance and disseminated to all stakeholders through hard as well soft copies. The calendar is strictly followed. Even during the pandemic times, all academic activities, mid-semester examinations, quizzes for continuous assessment, In-House Summer Internship Programmes, Finishing School, Final year internship, employability skill training, remedial classes etc. were conducted as scheduled. The departments, and other concerned sections plan their activities as per the academic calendar

Teaching plans:

All faculty members prepare teaching plans as per the time table prepared by the department and uploaded on the MOODLE for students' reference.The course faculty prepare lecture plan as per Multiple Mode Teaching Learning Pattern (MMTLP). The purpose of said teaching plan is

? To identify innovative teaching modes for different types of syllabus content

? To enhance skill development through different modes of teaching-learning

? To include latest developments in the domain catering to the fast changing technological scenario

? To introduce a global perspective into the course.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	[View File](#)

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

174

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	[View File](#)
List of the faculty members authenticated by the Head of HEI	[View File](#)
Any additional information	**No File Uploaded**

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

53

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1561

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

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

26

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

89

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

IT integration have been undertaken for Pre Examinations, conduct of examinations, and Post Examination activities through an Integrated Management System and Examination Control Software System with following features:

- semester Enrolment and registration of students.
- Attendance Verification .
- Entering marks of different types of evaluation components.
- Support for calculating Grades and SGPA/CGPA.
- Student Tracking.
- Compilation and Declaration of Results.
- Printing of provisional degrees and migration certificate.
- Generation of reports (nominal report, result analysis, scroll, success index, academic performance index etc.)
- Online Semester/Module Fee Payment.

Reforms in the examination procedures and processes

1. Examination procedures:

Continuous Assessments a. Theory courses: Two mid sem exam in a semester, quizzes, assignmentsb. Practical courses: viva-voce and Skill based mini project

End term evaluation: a. Theory Courses: (i) End sem exam (ii) Course proficiency.b. Practical Courses: End Term Exam 2.Multiple Mode Examination Logical Pattern: (i) MCQ based (ii) Assignment plus Oral, (iii) Pen and Paper.

3. Assessment through Rubrics

4. Credit transfer through MOOC platform:

5. Degree with Honors or Minor Specialization.

6. Online Viva-Voce Examination: Provision has been made to conduct viva-voce examinations through video-conferencing for PG dissertation viva.

7. Setting of question paper based on OBE: As per the guidelines of AICTE exam reform policy the questions of mid sem and end sem exams are mapped with defined Course Outcomes and Bloom's Level of Learning.

8. Transparency in Evaluation System:

9. Evaluation Criteria for Professional Development Course and Skill Based Mini Project, Self Study/ Seminar is framed as per the nature of the course

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional Information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The mechanism of widely propagating and publicize in program outcomes among the students and teachers is as follows:

1. Institute Website: The program outcomes are displayed by each department on their respective web page of the institute website.
2. Curriculum booklet: Program outcomes are written at the beginning of the curriculum book
3. Class rooms
4. Department Notice Boards
5. Laboratories
6. Department Corridors
7. Student Induction Programs
8. Meetings/ Interactions with stakeholders
9. Faculty meetings:
10. Professional Body meetings
11. HoD cabin

Course Outcomes (COs) are framed at Department level. The department OBE coordinator with the course experts frames the course outcome of their respective subjects using the guidelines for writing course outcomes. The approved COs are then included in the syllabus which are discussed in the Board of Studies meeting for approval.

Course Outcomes (COs) for all courses are communicated to teachers and students by various means:

1. The OBE coordinator of each department mentions the significance of Outcome Based Education to all students during Orientation program conducted at the beginning of each semester. COs are communicated to the students by the class coordinator and other course faculty members.
2. Also each faculty discusses the importance of CO during the introduction class itself.
3. COs along with lesson plan are uploaded on MOODLE.
4. Also, in the beginning of each lecture the learning outcomes of the topic are also focused. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed & discussed with students.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	[View File](#)
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Direct Assessment & Indirect Assessment methods are used for measuring the attainments of POs, PSOs and CO.

- Direct Assessment Methods:

1. Continuous Assessment:

2. For each lab, seminar, project work, rubric based assessment is used where each rubric is mapped with the CO, PO & PSO.

3. Semester-end Theory Examinations:

Indirect Assessment Methods:

1. Course End Survey

2. Exit survey

3. Alumni Survey

4. Employer Survey

Measuring CO attainment:

1.The overall CO attainment level of a course outcome is calculated as weighted sum of attainments obtained by each assessment tools as the rubrics given below:

2.Direct CO attainment=0.7x CO attainment through End Sem Exam + 0.2x CO attainment through Mid Sem Exam + 0.05 x CO attainment through Quiz + 0.05x CO attainment through assignments

3. Indirect CO attainment=0.5* attainment through student feedback+ 0.25*Course End Seminar +0.25* attainment throughone minute paper writing

4. Overall CO attainment Level=0.8* Direct CO attainment+0.2* Indirect CO attainment

Measuring PO/PSO Attainment:

Attainment of POs and PSOs is computed by using direct and indirect assessment methods.

Process for Direct POs, PSOs Assessment:

1. Using CO-PO & CO-PSO matrix for each course, the POs, PSOs attainment for given CO attainment in a course is computed for all the courses.

2. The average of PO attainment in individual Courses is the final direct PO/PSO attainment in the level of 1,2 & 3.

Process Indirect Assessment Tools:

1.Alumni feedback

3. Industrial Feedback

4. Graduate Exit Feedback

PO/PSO Attainment (Overall) = 0.8xDirect Attainment + 0.2x Indirect Attainment

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	**Nil**

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1077

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	View File
Upload any additional information	View File
Paste link for the annual report	https://web.mitsgwalior.in/images/NAAC/Annual%20Report%20Exam%202022-23.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://web.mitsgwalior.in/iqac-mn/feedback-iqac

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institute is actively promoting research through various initiatives, with the Board of Governors taking a keen interest in

research outcomes. The institute has a well-documented policy for promotion of research, approved by the BoG in their meetings, which is reviewed periodically. The institute has successfully implemented several new initiatives post-accreditation, including seed money for research, awarding faculty members who publish papers in indexed journals, conducting workshops on research methodology, offering research internships to final year students under faculty mentorship, and adhering to plagiarism guidelines. The institute has also established dedicated research groups and centers, conducted conferences and workshops in emerging areas, and organized an International Conference Series on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET) since 2019. It has also established a start-up cell to promote need-based, marketable research, and increased patents applied/awarded/published. The institute supports research scholars as Research Assistants, National Doctoral Fellows, and Quality Improvement Programme. A Research Advisory Committeeis constituted for each Ph.D. scholar, with six monthly reviews of scholars. Clear norms are in place for providing support to faculty members pursuing Ph.D from other institutes.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	View File
Provide URL of policy document on promotion of research uploaded on the website	https://web.mitsgwalior.in/index.php/research-policy
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	**No File Uploaded**
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	*View File*
List of teachers receiving grant and details of grant received	**No File Uploaded**
Any additional information	**No File Uploaded**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	*View File*
List of teachers and details of their international fellowship(s)	*View File*
Any additional information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

25.3

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	*View File*
List of projects and grant details	*View File*
Any additional information	**No File Uploaded**

3.2.2 - Number of teachers having research projects during the year

3

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**Nil**
List of research projects during the year	[View File](#)

3.2.3 - Number of teachers recognised as research guides

53

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	**No File Uploaded**
Institutional data in Prescribed format	[View File](#)

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	[View File](#)
Paste link to funding agencies' website	**Nil**
Any additional information	**No File Uploaded**

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institute was named a "Promising Institute" in the category Colleges/Institutes (Govt. & Govt. Aided) (Technical) in the Ministry of Education's Atal Ranking of Institutions on Innovation Achievements" (ARIIA) for the year 2021. All of the core engineering departments have dedicated research and innovation centres. In addition to the Institute's support, these facilities are funded by the Department of Science and Technology (DST) through the FIST-Level zero, AICTE-MODROB, and AICTE-RPS schemes. The Institute has

over 100 Ph.D. scholars working on research. IPR is generated in the form of products, patents, publications, and human resources. These facilities are used for faculty, staff, and student training. The research findings are shared with faculty and students from other departments via various faculty training programmes, FDPs, and so on. Students at the undergraduate and graduate levels also work on projects and dissertations, and they are encouraged to publish/present their papers at national and international conferences. Submission of a project/thesis requires the publication/presentation of at least one paper in a journal or conference.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

8

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	[View File](#)
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software

A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	[View File]()
Any additional information	**No File Uploaded**

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

115

File Description	Documents
URL to the research page on HEI website	**Nil**
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	[View File]()
Any additional information	**No File Uploaded**

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.5

File Description	Documents
List of research papers by title, author, department, and year of publication	[View File]()
Any additional information	**No File Uploaded**

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.2

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1263

File Description	Documents
Any additional information	**No File Uploaded**
Bibliometrics of the publications during the year	[View File](#)

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

11

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	[View File](#)
Any additional information	**No File Uploaded**

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

61.2

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	[View File](#)
List of consultants and revenue generated by them	**No File Uploaded**
Any additional information	**No File Uploaded**

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	[View File](#)
List of training programmes, teachers and staff trained for undertaking consultancy	**No File Uploaded**
List of facilities and staff available for undertaking consultancy	**No File Uploaded**
Any additional information	**No File Uploaded**

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Students are being taught social responsibility by the Institute. National Service Scheme (NSS) activities are required for all second year students. Blood donation, tree planting, aids awareness, and Swachhata Abhiyaan are all conducted on a regular basis. By distributing short videos/messages/appeals that went viral among students, the Holistic Health Club launched awareness drives. NSS conducted activity "Blanket Distribution to Poor and Needy people in Winter Season" on 18th January, 2023 Thursday. By this activity, 40 blind girls of Aatmjyoti Awasiya Dristiheen Kanya Vidhalaya got benefited. NSS conducted activity "Burger Music Party for especially abled Children" on 2nd March, 2023 Thursday and 45 blind girls of

Aatmjyoti Awasiya Dristiheen Kanya Vidhalaya, enjoyed the event. Training session cum Awareness programme for self-defence: Women and Girls were conducted on 07-Sep-2022 (04:00 PM to 06:00 PM) by the department of CSE and more than 100 girl students/ faculty members participated and learned from the event. A Health Check-up Drive drive was held on campus in collaboration with DR LAL PATH LABS; 23 people were benefited by the conducted drive.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	**Nil**

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	[View File](#)
e-copy of the award letters	[View File](#)
Any additional information	**No File Uploaded**

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

4

File Description	Documents
Reports of the events organized	[View File](#)
Any additional information	**No File Uploaded**

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

338

File Description	Documents
Reports of the events	[View File](#)
Any additional information	**No File Uploaded**

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

204

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

10

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The Institute, located on 44.6 acres of lush green land, offers a variety of classrooms, laboratories, and computing equipments. With 59 class rooms, 68 labs, 615 computers, and virtual labs, the Institute provides hands-on experience for students and teachers. The Institute also provides licensed and open software, such as ANSYS, MATLAB, PS CAD, Proteus Design Suite, Office Pro Plus 2016, SQL Server ST2016, and Turnitin. Internet connectivity is available via a 100 MBPS lease line from NKN and 100 MBPS from IshanNetsol. The campus is Wi-Fi enabled with 24/7 access for students and staff. The Institute has a state-of-the-art MOOC development center, a MOODLE server, and a NPTEL local chapter for e-learning through MOOC

courses. The Institute has a shop for Xerox and stationery, as well as a boys and girls hostel with facilities like mess. The Institute hasadministrative block, academic infrastructure, and amenities to accommodate the increasing student intake. In recent years, improvements have been made in physical infrastructure, equipment, library, and digital teaching-learning facilities to meet the needs of the growing student population and market demand for emerging technology areas. The Institute offers a well-equipped environment for providing a conducive learning environment for students.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The Institute is dedicated to holistic student development and has established a Students Development Cell under the Dean of Students Welfare to promote and organize extracurricular and co-curricular activities. The Institute has a well-developed cricket ground, basketball courts, football/hockey grounds, volleyball courts, and a courtyard ground for sports activities. Indoor sports facilities include table tennis in the canteen area and in girls and boys' hostels, as well as chess, carom, and skipping ropes in girl's hostel. Indoor cultural activities are conducted in various facilities such as a conclave center, colloquium, conference hall, and area near the main porch. Outdoor cultural activities are held in open air auditoriums, courtyards, and other open spaces with a capacity of 500 personsin the main ground and a capacity 200 persons in the open air auditorium in the courtyard. Yoga activities are conducted on a dedicated yoga platform nearby the open air gymnasium and other open spaces. The Institute has three gymnasiums, one open air and two indoor, equipped with the latest equipment and machines like: exercise cycle, treadmill, elliptical cross trainer, air walker, horse ride station, pull chair, rowing machine, double cross walker, leg press and exercise bar, seated chest press etc.

File Description	Documents
Geotagged pictures	View File
Upload any additional information	View File
Paste link for additional information	**Nil**

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

59

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	View File

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

618.21

File Description	Documents
Upload audited utilization statements	**No File Uploaded**
Details of Expenditure, excluding salary, during the years	View File
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The Learning Resource Centre of the Institute has implemented a Web-Based Koha 19.11.29 Integrated Library Management System to automate routine activities. The library is equipped with modern technologies such as RFID, Bar Code Technology, Remote Access facility, Federated Search, and Mobile Apps for Android and iOS users. The library offers Intranet OPAC and Web OPAC (Online Public Access Catalogue) facilities for book availability, which can be accessed both within and outside the campus. Koha provides an enhanced user experience through value-added features, including MARC 21 Cataloguing, Barcode

enabled with RFID integration, integration with RFID & barcode readers, more interactive and enhanced Web OPAC, and full Unicode support. The library subscribes to over 3300+ e-journals from reputed publishers, including ASME, ASCE, and Jstor, and over 4412+ titles of e-books from McGraw-Hill, Pearson Education, Newage International, Khanna, Laxmi, and millions of e-books from the World eBook Library and South Asian Archive provided by INFLIBNET ESodhsindhu. The Central Library provides access to various e-resources through its MITS e-Library portal. The MITS e-Library Portal offers 24*7 access to over 5 lakh+ e-resources, a single window search facility, a mobile app for Android and iOS users, news alerts, and a SocioLib feature.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://web.mitsgwalior.in/index.php/life-at-mits/central-facilities/library

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources   A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	View File
Upload any additional information	View File

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

0.24527

File Description	Documents
Audited statements of accounts	View File
Any additional information	**No File Uploaded**
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

802

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

IT policies may be classified into following groups:

- **IT Hardware Installation Policy**

- **Software Installation and Licensing Policy**

- **Network (Intranet & Internet) Use Policy**

- **E-mail Account Use Policy**

- **Institute Database Use Policy**

The policies will be applicable at two levels:

- **End Users Groups (Faculty, students, Senior administrators, Officers and other staff)**

- **Network Administrators**

The objective is to provide secured and monitored access to software, hardware and internet to all users of the Institute 24x7.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://web.mitsgwalior.in/images/NAAC/4/IT%20Policy.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
5244	**615**

File Description	Documents
Upload any additional information	**No File Uploaded**

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus

A. ?50 Mbps

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	**No File Uploaded**

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing

A. All four of the above

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://web.mitsgwalior.in/academics/quality-initiatives/mits-moocs
List of facilities for e-content development (Data Template)	View File

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

463.09

File Description	Documents
Audited statements of accounts	View File
Upload any additional information	View File

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Institute has established systems and procedures for monitoring and maintaining infrastructure, libraries, sports facilities, laboratories, classrooms, and seminar halls. Four maintenance cells are developed: Civil Maintenance Cell, Electrical Maintenance Cell, ICT Maintenance Cell, and General Maintenance Cell. Civil Maintenance Cell maintains physical infrastructure facilities, while Electrical Maintenance Cell ensures uninterrupted power supply and maintenance of electrical assets. ICT Maintenance Cell maintains facilities like computers, Wi-Fi, and security systems, while General Maintenance Cell keeps the campus clean and maintains water supply and sewage treatment. The institute maintains various services, including electrical, plumbing, and housekeeping, through separate complaint registers and an e-system. Minor work is done by labor and artisans, while major maintenance is done through the Annual Maintenance Contract System. Labs are maintained by lab in-charges and technical staff. Utilization reports are maintained by lab in-charges and HoDs. Advanced and expensive equipment is maintained through the Annual Maintenance Contract. The institute maintains various facilities, including the Central Library, sports offices, and computer centers. Standard Operating Procedures (SOPs)

are maintained in all labs and computer centers. Class rooms are allocated to departments and cleaned daily, with HODs and class coordinators monitoring cleanliness.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/images/NP/ACM/Infrastructure%20Maintenance%20Policy-1.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1749

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File](#)
Upload any additional information	**No File Uploaded**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

6

File Description	Documents
Upload any additional information	**No File Uploaded**
Institutional data in prescribed format	[View File](#)

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene) Awareness of Trends in Technology   **A. All of the above**

File Description	Documents
Link to Institutional website	**Nil**
Details of capability development and schemes	[View File](#)
Any additional information	**No File Uploaded**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1001

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	[View File](#)

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees

A. All of the above

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	[View File](#)
Details of student grievances including sexual harassment and ragging cases	[View File](#)
Upload any additional information	[View File](#)

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

607

File Description	Documents
Self-attested list of students placed	**No File Uploaded**
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

44

File Description	Documents
Upload supporting data for students/alumni	**No File Uploaded**
Details of students who went for higher education	View File
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

59

File Description	Documents
Upload supporting data for students/alumni	View File
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

253

File Description	Documents
e-copies of award letters and certificates	[View File](#)
Any additional information	No File Uploaded

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

`Students are nominated in BoS, Alumni Cell and Placement Cell at the department level.

• All the student clubs in the institute are managed by student bodies.

• Student volunteers are assigned duties for the smooth conduction of campus placements.

• Group of students are nominated by the Heads of Department as OBE coordinators who help in dissemination of OBE related information.

• Gender Champions for establishing gender equity on campus are nominated by the class coordinators/Heads of Deptt from each deptt, boys as well as girls.

• There are placement coordinators and volunteers for managing placement activities.

• Student representatives nominated to work as alumni coordinators for tracing, storing and involving alumni in the department activities.

• Senior students work as mentors to junior students; each senior student has 3 first year students to mentor.

• Student representatives are there in the anti-ragging committee of the institute.

• There are class representatives in each class nominated by the class coordinators.

• Students are involved as office bearers in the innovation cell and start-up cell.

• Students are members of Hostel mess committees.

- **Two student representatives are members of the IQAC.**

File Description	Documents
Upload any additional information	View File
Paste link for additional information	https://drive.google.com/file/d/1Nl1O-LtPz-IUK4vfSDNr3eczjSc3GqZL/view?usp=sharing

5.3.3 - Number of sports and cultural events / competitions organised by the institution

37

File Description	Documents
Report of the event	**No File Uploaded**
List of sports and cultural events / competitions organised per year	View File
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association: The institute alumni association is registered and functional. The MITS Alumni Association operates from its permanent office located in MITS Campus.

Alumni Chapters: The alumni chapters are also functional and organizing activities in the chapters. The alumni chapters are functional in Gwalior, Delhi, Bhopal and Indore. Soon chapters will be started in Bangalore, Hyderabad, Pune, Mumbai and Chennai

Financial Contribution:

- **During the year 2022-2023 alumni contribution received to the institute is about Rs. 3,40,000.**
- **Alumni also sponsored good projects from the students.**
- **Financial support provided by alumni chapters to NGO's and primary/high schools students.**
- **Contribution towards the alumni related events.**
- **Donation of caution money towards the alumni fund.**
- **There are a number of scholarships initiated by the alumni for supporting students who are meritorious and from economically**

weaker sections of the society.

Non-Financial Contribution

- The representatives of the Alumni in (i) BoG (ii) IQAC and (iii) BoS
- The alumni are involved in curriculum development and are helping in strengthening industry interaction.
- Provides feedback on curriculum, syllabus and advanced technologies so that the institute can prepared industry-ready students.
- Discussions were held to help the Institute with practical work and development. This was arranged with knowledge of Alumni working in various organizations, as on doing individual entrepreneurship.
- The alumni help in internships and job placements.
- The alumni help in organizing industrial visits, interactions etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	Nil

5.4.2 - Alumni's financial contribution during the year   D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The institute is managed by the Scindia Engineering College Society (SECS) which is registered under the Societies Registration Act No. 53 of 1950 (no. 337 of 1956). The Institute functions under the chairmanship and guidance of the H.H. Jyotiraditya M. Scindia, Educationalist and other BoG Members. The Institute is administered by the Director of with other faculty members holding the significant administrative and academics responsibilities. The roles

and responsibilities of each functionary are defined and the same are available on Institute website.

The Vision, Mission, branding Statement and value framework is aligned with the perspective plan prepared after SWOT analysis, based on departmental vision and stakeholders' feedback.

There is active participation of the teachers in the decision-making bodies of the institution, such Internal Quality Assurance Cell, Academic Council, Academic Development Cell, Student Development Cell, Board of Studies, Research Committee, Proctorial Board, Internal Audit Committee, Industry-Institute-Interaction Cell, Library Advisory Committee, Women Guidance, Grievances and Redressal Committee , Girls Grievance Cell, Students Grievances Cell, Discipline Committee, Central Purchase Committee, Anti Ragging Committee as per guidelines of Honorable Supreme Court of India, Internal Complaint Committee (ICC) for Women (Students & Staff) for Sexual Harassment at workplace, Hostel Admission Committee, Building Committee etc.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://web.mitsgwalior.in/index.php/adminmanagement

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The HoDs, Proctor, Deans have well defined duties.

Powers are given to Class Coordinators to ensure decentralization of all processes, monitoring records of attendance, student leaves, forwarding various documents & applications of students and final forwarding of examination form.

For each initiative taken by the IQAC separate coordinators are appointed at the department level to help in administration of the different activities such as -

OBE coordinator monitors activities related to attainment of COs through direct and indirect assessment, development of rubrics, computation of POs/PEOs, setting of targets, corrective actions, gap analysis, question paper analysis on the basis of LOTs/HOTs/Bloom's

Taxonomy etc.

Coordinator for remedial/bridge classes, Web coordinator for departmental web page management, Coordinator for departmental e-Newsletter, Alumni coordinator for enhancing and managing alumni interaction and Plagiarism administrator l have clearly defined responsibilities.

Case Study: One of the most successful best practices at MITS is the use of MOODLE for all teachinglearning-evaluation activities. This has been possible due to the role played by the MOODLE coordinator who created awareness by conducting special sessions to address queries of students and faculty from time to time and facilitated effective utilization of the MOODLE for Quiz, Feedbacks, assignments, midterm evaluation etc.

File Description	Documents
Upload strategic plan and deployment documents on the website	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional Information	https://web.mitsgwalior.in/about-institute/duties-and-responsibilities

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The Institute has developed a strategic plan to ensure the vision & mission of Institute at Academic & Administrative levels. The Board of Governors of the Institute has approved the plans & continuously monitoring the same for effective implementation & progress of the plan specific activities to ensure the quality education.

The Perspective Plan of the Institute is prepared for the development up to 2023. Apart from monitoring by BoG, the state government also monitors the progress and implementation through review meetings. Clear targets are set for different activities and achievements of specific goals such as achieving Accreditation Status, Faculty Recruitment, Academic Reforms, Academic Improvement Projections, Students Progression Targets, Allocation of Development

funds for IT and other learning Infrastructure, Laboratories and Innovations, research & development, Faculty Knowledge Enhancement and student Activities, strengthening of Technical & Internal Support system, providing student Support, alumni engagement, industry interaction, Internationalization etc.

For effective implementation of the National Education Policy (NEP-2020) clear annual projections and numeric goals have been planned. The details were finalized after discussion in the meeting of the Human Resource Development committee of the instate in its meeting in July 2021, where a few administrative heads of the top national institute were also invited.

Additional information at:
https://web.mitsgwalior.in/index.php/perspective

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://web.mitsgwalior.in/images/NAAC/Perspective%20Plan%20MITS%20Gwalior.pdf
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from the policies, administrative set-up, appointment and service rules, procedures, etc.

The Board of Governors ensure the establishment/monitoring of effective and efficient systems of control and accountability to ensure Outcome Based Quality Education as per the vision of the Institute.

- The day-to-day administrative affairs of the College are managed by the Director of the Institute through a decentralized system to ensure the proper conduct of all the academic/research/development/extension activities.
- The administrative responsibilities are shared by the Dean-Academics, Dean-Students Welfare, Registrar, Exam Controller, Proctor, Heads of the Department, Deputy Registrar and Finance officer.
- Decentralized mechanism exists in the Institute, the other faculty as per abilities/choice & interests are assigned the responsibility of coordinator/In-charge/member of committee for empowerment and one to one interaction with the

stakeholders.

- **The various administrative responsibilities as shown in organizational chart of the institute and committees including anti-ragging & Grievance redressal committees have been formed for power delegation and decentralization of authority for the effective/efficient functioning of the institution in all its spheres of planning, decision-making and implementation.**
- **The Board of Governors of the Institute is playing a crucial role in the growth of the Institute in terms of Quality & Quantity through various meetings and visits in the Institute.**
- **link to Organogram on the institution webpage : https://web.mitsgwalior.in/images/NAAC/orgchart.pdf**

File Description	Documents
Paste link to Organogram on the institution webpage	https://web.mitsgwalior.in/images/NAAC/orgchart.pdf
Upload any additional information	View File
Paste link for additional Information	**Nil**

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance and Accounts Student Admission and Support Examination

A. All of the above

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	**No File Uploaded**

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The welfare measures for the teaching and non-teaching staff are successfully implemented in the Institution, the following benefits are given to the teaching and non-teaching staff:

- Schemes as per MP Govt. norms such as Gratuity, GPF, Pension, Commutation of Pension, leaves, EL encashment, University Welfare Scheme, etc.
- Promotions/upgradation/career advancement etc as per government/institute norms
- Encouragement and Financial Support to the faculty & staff to attend workshops, conferences, and other faculty & staff development/Training programmes with leave
- Seed Money to faculty for research
- The teaching/non-teaching staff are given appreciation letters & Awards for outstanding performance in teaching, research and administration.
- Financial assistance to conduct In-house faculty & staff development programme.
- Conduction of FDP/STTP/workshops/training programmes on emerging areas
- Conduction of Induction programmes for the newly recruited faculty & staff.
- Conduction of various training programmes on pedagogical approaches, Finance Management System, MS-Office, office management for non-teaching staff, and waste management, operating fire extinguisher training for other domestic staff.
- Grievance Redressal Cell to address the issues and grievances of the faculty & staff.
- Availability of full-time professional counsellor for faculty & staff.
- Gymnasium, Sports & Games facility
- Group Insurance Scheme for teaching and non-teaching staff.
- Teachers' Welfare Fund.
- Free health check-up camps, Medical Dispensary

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	https://web.mitsgwalior.in/index.php/welfare-measures-for-career-development-progression

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

4

File Description	Documents
Upload any additional information	View File
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	View File

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

10

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	View File
Upload any additional information	View File

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

33

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal and External Financial Audits

The Institute is Grant-in-Aid of M.P. Govt. and receives Annual Block Grant from the State of Madhya Pradesh. The Institute has following mechanism for conducting audits on the financial transactions every year to ensure financial compliance

- **The Copies of sanction of Budget/NoteSheets, invoice and bills, and supporting documents of every purchase is maintained by the concerned section/Departments and the original documents are maintained in the finance & accounts section of the Institution. The details of all the expenditures / transactions of the entire financial year are maintained in the accounts office.**
- **There is a Resident Auditor of Govt. of Madhya Pradesh and the Pre-auditing system exists in the Institute. However, Post Audit is conducted by Office of the Accounts General, Govt. of India periodically.**
- **Funds received from Management and other Government bodies, individual etc., are audited by Chartered Accountant appointed by the Society/Board of Governors of the Institute.**
- **The internal finance committee of Institute thoroughly verifies the income and expenditure details and the compliance report of internal audit is submitted to the Society of the institution through Director**
- **To maintain the transparency, the Institute publishes audited reports on the institute website for the stakeholders**

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional information	https://web.mitsgwalior.in/audit-statements

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

0

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	**No File Uploaded**
Any additional information	**No File Uploaded**

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

Adequacy of budget allocation

As per perspective plan of the Institute, BoG of the Institute allocates the fund to meet out the targets decided for quality education. BoG of the Institute has also decided that funds should not be a hindrance factor to achieve the vision of the Institute. Adequacy of allocated budget and expenditure is monitored through finance committee and BoG of the Institute.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://web.mitsgwalior.in/audit-statements

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation quality initiatives (Second and subsequent cycles)

Post Accrediataion Initiatives

Response:

- Mechanism for slow-fast learners
- Value added courses
- Effective implementation of Flexible Curriculum and NEP-2020
- Credit transfer from MOOCs NPTEL local chapter
- Multiple mode teaching learning pattern (MMTLP)
- Academic and administrative audit (AAA)
- Faculty feedback index (FFI) for monitoring T-L-E
- Digitization of classrooms
- Innovative research scheme
- Partial course delivery by industry professional
- 400 plus industry collaborations for full VIII semester internship
- In-house summer internship programmes
- Orientation programmes
- Establishment of gender-sensitive culture, events
- Alumni donations
- State-of-the-art digital studio MOOC development
- Installation of 100kWp roof-top solar plant
- Computation of Administrative Efficiency Index
- Awarding meritocracy

Contribution of IQAC in institutionalizing quality practices through continuous monitoring & review

1.Computation of Administrative Efficiency Index

- **To increase the effectiveness of T-L-E & other identified quality initiatives**
- **To quantify the performance of departments of the institution**
- **Institutionalization of practices**

EVIDENCE OF REVIEW BY IQAC Review by IQAC on 30/12/2022

[2] Student feedback & computation of Faculty Feedback Index (FFI)

- **The previous two modes of conduction of student feedback were Google forms & MOODL.**
- **in Google forms feedback links were transferable.**
- **In MOODLE there was a scope for adding students from different classes**
- **All these anomalies are removed in the present IMS-based feedback system**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/administration/iqac-m

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The IQAC performs a review of all quality practices including teaching & learning. The various reports on are uploaded on the web page of the IQAC. The two practices given here are

1. Regular Academic Audit :-

- **The institute periodically reviews all academic practices twice a year, one by internal committee, other by external experts.**
- **The reports are presented in the IQAC for review.**
- **The review parameters are divided into three criteria. Criterion I: Availability of Records & Data Management, Criterion II: Teaching Learning Practices and Criterion III:**

Quality Improvement Initiatives.

2.Regular reviews of teaching-learning process by the IQAC

- Quality practices such as 'development & implementation of the Flexible Curriculum', 'slow-fast learner mechanism', attainment of COs & POs, remedial class mechanism, analysis of feedback, question paper, curriculum, status of MOOC development at MITS.
- Reports/ compliance on all regular practices are presented in the quarterly meetings of the IQAC.
- The IQAC sets deadlines for quality practices/activities and a six monthly monitoring through the "Administrative Efficiency Index" (AEI) is carried out.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/administration/iqac-m

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)

A. Any 4 or all of the above

File Description	Documents
Paste the web link of annual reports of the Institution	https://web.mitsgwalior.in/index.php/quality assurance
Upload e-copies of accreditations and certification	[View File](#)
Upload details of quality assurance initiatives of the institution	[View File](#)
Upload any additional information	No File Uploaded

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

MITS Gwalior has gained national recognition for its academic excellence and distinctive culture. The institute is dedicated to fostering a congenial work environment, echoing Emma Watson's perspective on gender as a spectrum rather than a dichotomy. In alignment with this philosophy, the institute has established the Girls Grievance Cell, aiming to address various concerns specific to female students on campus.

The primary objectives of the Girls Grievance Cell encompass:

- Establishing and maintaining a secure environment.
- Fostering an atmosphere that advocates equality and gender justice.
- Providing appropriate psychological, emotional, and physical support through counseling, security measures, and other forms of assistance.
- Emphasizing the significance of health and hygiene.
- Conducting awareness programs to underscore women's rights.

The various activities conducted for the promotion of gender equity during 2022-2023 are as follows:

- Film Festival from 05/09/22 - 08/09/22
- Dheera on 22/09/22
- Workshop on "Act for VAW" on 25/11/22
- Campaign on Health and Menstrual Hygiene Management on 04/02/23
- Health Checkup Drive (10/03/23)
- Workshop on Change Management on 13/03/23
- Poetry Competition on 13/03/23
- Sports Fest for Women on 21/03/23
- Workshop on Gender Sensitization 2.0 on 01/04/23

Web Link : https://web.mitsgwalior.in/grievance-cell

File Description	Documents
Upload any additional information	[View File]()
Paste link for additional Information	https://web.mitsgwalior.in/grievance-cell

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy   Biogas plant Wheeling to the Grid   Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment

A. Any 4 or All of the above

File Description	Documents
Geotagged Photographs	[View File]()
Any other relevant information	[View File]()

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Response:

- **Solid waste management- Two-bin system has been implemented in the institute to collect the biodegradable and non-biodegradable waste separately. The biodegradable waste generated are dumped into compost plant and the non-biodegradable waste is sold to the agency for recycling.**

- **Liquid waste management- The institute has established two Sewage Treatment Plants (STP) which has the capacity of 1.5 KLD for the disposal of liquid effluent. After the STP process, the treated water is used for the irrigation of agricultural field, grounds, parks etc in the campus.**

- **E-waste management- E-waste from college is collected and under the process of safe disposal through there cyclers who are registered by the Central Pollution Control Board of Govt of India.**

- **Hazardous chemicals and radioactive waste management- Chemicals used in the laboratory are dilute acids only. Otherwise, the chemicals are safe and not hazardous.**

- **Waste recycling system- The institute has adopted an effective**

recycling system where the biodegradable solid wastes are collected from the campus and dumped in the compost unit to produce organic fertilizers. The fertilizer thus produced is used for the enhancement of soil nutrition. Besides the Institute also educates concern in the campus about the significance of the waste recycling system.

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows:

A. Any 4 or All of the above

1. **Restricted entry of automobiles**
2. **Use of bicycles/ Battery-powered vehicles**
3. **Pedestrian-friendly pathways**
4. **Ban on use of plastic**
5. **Landscaping**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: **A. Any 4 or all of the above**

1. **Green audit**
2. **Energy audit**
3. **Environment audit**
4. **Clean and green campus recognitions/awards**
5. **Beyond the campus environmental promotional activities**

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of   **A. Any 4 or all of the above**

reading materials, screen reading, etc.

File Description	Documents
Geotagged photographs / videos of facilities	<u>View File</u>
Policy documents and brochures on the support to be provided	<u>View File</u>
Details of the software procured for providing assistance	<u>View File</u>
Any other relevant information	<u>View File</u>

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institute has made several efforts to create an inclusive atmosphere that values harmony and tolerance towards linguistic, cultural, regional, socioeconomic, and other diversity. The following officials, including various grievance redressal cells, have been given duties by the institute to maintain an inclusive workplace where everyone is treated equally regardless of their race or cultural background. To promote tolerance and concord among students, teachers, staff, and other stakeholders, the following officials frequently organize and celebrate numerous speeches, National and International Days, Events, Festivals, and cultural activities.

1. Dean Academics

2. Dean Student Welfare

3. Registrar

4. Head of the Departments /Coordinators

5. Professor in charge of the celebration of National/International commemorative days, events/festivals

6. NSS Officer & Departmental NSS Coordinators

7. Student Development Cell

8. Equity Coordinator

9. Cultural Coordinator

10. Coordinator Ek Bharat Shreshtha Bharat Programme

11. Gender Sensitization Committee

12. Sports Officer

13. Club Faculty Coordinators

14. Class coordinators

The institute enforces a comprehensive code of conduct for faculty, staff, and students, promoting inclusivity across diverse backgrounds. Mandatory courses foster understanding, while a plethora of events, celebrations, and activities encourage tolerance, harmony, and holistic development.

More information on administrative duties is at https://web.mitsgwal ior.in/administration/administrative-responsibilities

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

- **The Institute prioritizes comprehensive orientation with tailored Induction Programs for both faculty and students in adherence to AICTE guidelines.**
- **Annual celebrations of Independence Day and Republic Day underscore national pride through flag hoisting, parades, cultural events, and patriotic speeches. The Director's address during Republic Day is a highlight, fostering a sense of patriotism. Various activities organized by students and faculty under NSS, NCC, and clubs aim to sensitize the campus community to constitutional obligations and civic responsibilities.**
- **The Department of Humanities enhances academic rigor with the "Indian Constitution and Traditional Knowledge" course,**

offering theoretical insights through classes, assignments, and Moodle quizzes. These initiatives collectively contribute to a vibrant academic environment, emphasizing cultural traditions, values, and a commitment to instilling constitutional awareness among students and faculty, promoting holistic development in the institution.

- The Institute has launched a Massive Open Online Course (MOOC) on Indian Constitution and traditional Knowledge, aiming to instill constitutional awareness, values, rights, duties, and responsibilities among its stakeholders. Access the course ath ttps://web.mitsgwalior.in/academics/quality-initiatives/mits-moocs?view=article&id=773&catid=2.

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	View File
Any other relevant information	View File

7.1.10 - The institution has a prescribed code of conduct for students, teachers, administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

A. All of the above

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The Institute actively engages in commemorating an extensive array of national and international observances, events, and festivals to foster cultural understanding, community involvement, and patriotic spirit. Faculty Coordinators play a crucial role in organizing celebrations for significant days such as Global Iodine Deficiency Day, International Science Week Webinar, International Tolerance Day, Human Rights Day, National Energy Conservation Day, National Cleanliness Day, and more.

Beyond these special days, the Institute promotes the celebration of festivals such as Ganpati Utsav, Garva, Dandiya, fostering inclusivity and vibrancy on campus. Independence Day and Republic Day are observed with flag-hoisting ceremonies, symbolizing the nation's sovereignty. Founder's Day on November 14th serves as a reflection on the Institute's history, marked by speeches, special events, and commemorative ceremonies.

Additionally, the Institute takes an active role in celebrating various national and international days, including Gandhi Jayanti, International Week for Science, National Youth Day, International Human Rights Day, International Yoga Day, and Voters Day. These celebrations feature seminars, expert talks, and engaging activities, contributing significantly to the holistic development of students.

For detailed information on these activities and events, interested individuals can refer to the following weblink.

https://web.mitsgwalior.in/life-at-mits/student-activities/societies-clubs

https://web.mitsgwalior.in/life-at-mits/student-activities/commemorative-days

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the

prescribed format of NAAC

BEST PRACTICE -1

Title: Establishment of MITS-MOODLE for Digital Teaching-Learning

To implement a Modular Object-oriented Dynamic Learning Environment (MOODLE) as a robust Learning Management System (LMS), offering a student-centric 'any-time, any-where' learning experience. The goals include providing accurate content to digital-savvy students, supporting various academic activities, accommodating diverse learning styles, and aiding faculty in consolidating courses digitally. Launched on August 15, 2017, MITS-MOODLE facilitates interactive teaching, learning, and evaluation. The initiative addresses challenges like reliance on non-authentic materials, the need for easy access to academic content, and time wastage in content searches. The practice involves MOODLE coordinators promoting faculty integration, course page creation, attendance marking, COs and syllabus entry, online quizzes, assignments, and feedback collection. Despite initial challenges, MITS-MOODLE is now integral to teaching and learning, showcasing a successful shift to digital education.

BEST PRACTICE-02

Title: Integrating Online Courses: MITS-NPTEL Model

Foster self-learning, instill lifelong learning skills, facilitate credit transfer, enable flexible and paced learning, connect with premier institutes, and promote choice and flexibility. The initiative addresses the paradigm shift in education towards a learner-centric approach. MITS, being autonomous, developed a curricular model allowing self-learning through NPTEL. The NPTEL platform, known for a plethora of courses and credible proctored exams, was chosen. The Academic Council approved the proposal in 2017, and MITS-NPTEL secured impressive 25th and 6th ranks in 2022 and 2023 sessions among 5500+ local chapters of the country, showcasing the success of the integrated online courses model.

File Description	Documents
Best practices in the Institutional website	https://web.mitsgwalior.in/iqac-mn/best-practices
Any other relevant information	https://web.mitsgwalior.in/images/EEIOT/Data%20NAAC/Best%20Practices.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

NEC was introduced at MITS, Gwalior for holistic education using activity-based learning.Unique and distinctive feature of the curriculum.

Initiation and Planning:

The Academic Development Cell formulated an action plan in March 2021.

Proposal for NEC Implementation:

Proposal to introduce NEC for UG students admitted from 2020-21 onwards.30-hour duration per semester, mandatory for III to VI semester students.01 credit per semester, totaling 04 credits.

Approval and Credit Provision:

Proposals approved by the Academic Council on June 28, 2021.NEC courses credited under the regular curriculum.Approved courses cover a wide range: NSS, NCC, Languages, Literature, Music, Dance, Arts, Theatre, Culinary Arts, Public Speaking, Vedic Mathematics, Economics, Sports, Meditation, Yoga, Ayurveda, etc.

Some modules are designed in two/four phases.

Except for NCC and NSS, a varied sessions, including online classes, seminars, activities, quizzes, and assignments.

Monitoring and Review:

Regular monitoring of the registration process, student feedback, and evaluation mechanisms.Day-to-day monitoring by the Dean of

Student Welfare.

Status Review:

In the IQAC meeting on December 30, 2022, the status of NEC implementation was reviewed in item 6. The listof proposed NEC courses is also reviewed in the IQAC meeting in Item 7. In the IQAC meeting held on 30.06.2023, the registration detail for Jan-June 2023 was reviewed and the department-wise summary was reviewed in item 8

Session

Number of student Registered

Number of Students Given Feedback

% of Students

July-Nov 22

2546

1458

57.27

Jan-June 23

2523

1379

54.6%

Part B

CURRICULAR ASPECTS

1.1 - Curriculum Design and Development

1.1.1 - Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which are reflected in Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the various Programmes offered by the Institution.

The Institute has been granted academic autonomy from RGPV, Bhopal (State Technical University) since 2002 and UGC has also given the autonomous status from 2017. As a consequence, the curriculum is being revised on regular basis through Board of Studies (BoS), which is confirmed by the Academic Council. Further, institute has implemented Flexible Curriculumsince2017-18andalso concluded its action plan for the effective integration of National Education Policy 2020.

Aligning with the local, regional, national and global needs, students are fosters with the required domain knowledge, skills and attitude by considering the following factors: (i) Reports of various reputed organizations, (ii) Model curriculum prescribed by AICTE,(iii) Mapping with Program Outcomes, (iv) Suggestions by industry experts and alumni, (v) Syllabi of various competitive exams.Curricula addresses the following national missions: Digital India(Incorporation of MOOCs & digital pedagogy), Unnat Bharat Abhiyan, Women Empowerment, and Skilling India (provision of Skill Based Mini Project).

The curriculum and relating practices are in line with the Programme Outcomes, Programme Specific Outcomesand Course Outcomesof the various Programmes.The Institute observes the attainments of PEO, PO& PSO for respective programmes which in turn relates to Vision and Mission of the Institution and Department as well.

File Description	Documents
Upload additional information, if any	[View File]()
Link for additional information	**Nil**

1.1.2 - Number of Programmes where syllabus revision was carried out during the year

`11`

File Description	Documents
Minutes of relevant Academic Council/BOS meeting	View File
Details of syllabus revision during the year	View File
Any additional information	**No File Uploaded**

1.1.3 - Number of courses focusing on employability/entrepreneurship/ skill development offered by the Institution during the year

`555`

File Description	Documents
Curriculum / Syllabus of such courses	View File
Minutes of the Boards of Studies/ Academic Council meetings with approval for these courses	View File
MoUs with relevant organizations for these courses, if any	**No File Uploaded**
Any additional information	View File

1.2 - Academic Flexibility

1.2.1 - Number of new courses introduced across all programmes offered during the year

`140`

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
Institutional data in prescribed format (Data Template)	View File

1.2.2 - Number of Programmes offered through Choice Based Credit System (CBCS)/Elective Course System

`27`

File Description	Documents
Minutes of relevant Academic Council/BoS meetings	View File
Any additional information	**No File Uploaded**
List of Add on /Certificate programs (Data Template)	View File

1.3 - Curriculum Enrichment

1.3.1 - Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability, and Human Values into the curriculum

To equip future engineers as architects of a thriving nation, curriculum must go beyond technical expertise. Integrating moral grounding, ethical conduct, sensitivity to social challenges, and sustainable practices empowers them to build a better tomorrow.

While preparing the syllabi at MITS all these above considerations are properly addressed. The mandatory courses like Energy Environment Ecology & Society, Biology for Engineers (Mandatory Audit Course), Cyber security, Ethics,Economics, Entrepreneurship & Management, Indian Constitution & Traditional Knowledge (Mandatory Audit Course), Disaster Management, Intellectual Property Rights, Project Planning & Financing, having orientation towards the above issues were offered to all the undergraduate students. The additional mandatory courses offered is Universal Human Values & Professional Ethics(UHVPE).

The institute's gender sensitization cell is making 'respectful and valued campus' a reality through impactful activities, poster competitions, and thought-provoking sessions that empower students to be agents of change.

To ensure the holistic development of students, Novel Engaging Courses (NECs)in diversified areaswith the arrangement of four credits have been included in the curriculum w.e.f. 2020-2021 batch. The courses are Environment protection, Bhagwad Gita- An Introduction, Know Your Country: History, Culture & Traditions, Preliminary Journalism Skills, Sculpture Making, Innovation: From Creativity to Entrepreneurship.

File Description	Documents
Upload the list and description of the courses which address issues related to Gender, Environment and Sustainability, Human Values and Professional Ethics in the curriculum	View File
Any additional information	**No File Uploaded**

1.3.2 - Number of value-added courses for imparting transferable and life skills offered during the year

166

File Description	Documents
List of value-added courses	View File
Brochure or any other document relating to value-added courses	**No File Uploaded**
Any additional information	**No File Uploaded**

1.3.3 - Number of students enrolled in the courses under 1.3.2 above

3962

File Description	Documents
List of students enrolled	View File
Any additional information	**No File Uploaded**

1.3.4 - Number of students undertaking field work/projects/ internships / student projects

1856

File Description	Documents
List of programmes and number of students undertaking field projects / internships / student projects	View File
Any additional information	**No File Uploaded**

1.4 - Feedback System

1.4.1 - Structured feedback and review of the	**A. All 4 of the above**

syllabus (semester-wise / year-wise) is obtained from 1) Students 2) Teachers 3) Employers and 4) Alumni

File Description	Documents
Provide the URL for stakeholders' feedback report	https://web.mitsgwalior.in/iqac-mn/feedback-iqac
Upload the Action Taken Report of the feedback as recorded by the Governing Council / Syndicate / Board of Management	**No File Uploaded**
Any additional information	**No File Uploaded**

1.4.2 - The feedback system of the Institution comprises the following — **A. Feedback collected, analysed and action taken made available on the website**

File Description	Documents
Provide URL for stakeholders' feedback report	https://web.mitsgwalior.in/iqac-mn/feedback-iqac
Any additional information	View File

TEACHING-LEARNING AND EVALUATION

2.1 - Student Enrollment and Profile

2.1.1 - Enrolment of Students

2.1.1.1 - Number of students admitted (year-wise) during the year

1558

File Description	Documents
Any additional information	View File
Institutional data in prescribed format	View File

2.1.2 - Number of seats filled against reserved categories (SC, ST, OBC, Divyangjan, etc.) as per the reservation policy during the year (exclusive of supernumerary seats)

633

File Description	Documents
Any additional information	View File
Number of seats filled against seats reserved (Data Template)	View File

2.2 - Catering to Student Diversity

2.2.1 - The institution assesses students' learning levels and organises special programmes for both slow and advanced learners.

The institute identifies learners as slow, medium and fast learners, and then adapts different methods to help them achieve their learning goals. The UG students are classified into 3 categories; The fast digital learners are the ones who attended all classes, submitted all assignments and appeared for all weekly quizzes for all courses. The medium level digital learners were those who attended at least one online class per course per week, submitted/appeared for at least 50% of assignments/quizzes. The slow digital learners were those students who were not attending any online classes or attending less than 10% of classes, and who were not submitting assignments/quizzes or submitting/appearing for less than 10 % of assigned/conducted.

A. Action Taken for different categories of Learners

I. Activities conducted for slow learners:

1. **Remedial classes**
2. **Unit wise question bank based on previous year question papers**
3. **Extra quizzes for practice**
4. **Extra assignments for practice**
5. **Virtual labs for better understanding of course**

II. Activities conducted for Fast learners

1. **Higher level of learning through assignments/ quizzes (GATE/IES/PSU exam based).**
2. **Virtual labs for better understanding of course**
3. **Motivation for learning through MOOC and earning SWAYAM/ NPTEL certificate.**
4. **Motivation for opting minors and honours.**
5. **Motivation for participation in Hackathon**
6. **Support in Placements & career growth through workshops and Alumni interaction.**

7. Support in higher education & career growth through Research Internship Scheme and publication of research papers

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

2.2.2 - Student – Teacher (full-time) ratio

Year	Number of Students	Number of Teachers
30/06/2023	4997	174

File Description	Documents
Upload any additional information	View File

2.3 - Teaching- Learning Process

2.3.1 - Student-centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences:

Experiential Learning

1.1 Projects

1.1.1 Skill based Mini Projects

1.1.2 Minor Project/Major project/ Dissertation:

1.2 Industry Visits

1.3. Guest Lectures by Industry Experts:

1.4 Field Visits/Survey: Students are taken for field visit to nearby places as per the requirement of the course.

1. 5 Participation of students in competitions:

1.6. Novel engaging Courses: .

2. Participative Learning Methodologies

2.1 Group activities

2.2 NSS activities

2.3. NCC and Sports Activities: Institute has an independent technical unit of NCC named 3 MP TEC (I).

2.4. Club and Society Chapter Activities:https://web.mitsgwalior.in/life-at-mits/student-activities/societies-clubs

2.5 Summer Internship Programs: Three mandatory internships of 60 hrs, 90 hrs and 150 hrs are conducted for the UG II, III and IVyear students respectively.

2.6 Seminar: Seminar presentations are made by students on assigned topics to enrich their learning experience, communication skill and life long learning.

2.7 Interactive Classes: Flip classes are conducted as per the lecture plan and discussions are made with students on the topic shared in advance.

Problem Solving Methodologies

1. Creative Problem Solving Course: In UG VII semester, students are asked to deal with current problems of society by proposing innovative solution approaches under the course entitled as Creative Problem Solving.2.
2. Research
3. Skill Based Mini Project/Minor Project: Skill based mini projects of all practical based courses and Mini projects are designed to solve open ended problems.
4. Quiz and Assignments
5. Conduction of Tutorial Classes

File Description	Documents
Upload any additional information	[View File](#)
Link for additional Information	Nil

2.3.2 - Teachers use ICT-enabled tools including online resources for effective teaching and

learning

The faculty members are combining technology with traditional mode of teaching to make the teaching effective and efficient to students by using following ICT facilities:

1. Projectors-

2. Interactive Boards

3. Desktop and Laptops

4. SWAYAM Prabha Connection

5. MOOC centre

6. Online platforms viz, Zoom, Google Meet, Microsoft Team,

7. MOOC Platform (NPTEL, Coursera,)

8. Digital Library resources

Use of ICT by Faculty for teaching learning activities:

The practice of using ICT enabled tools as mentioned above have been adopted by faculty to enhance teaching-learning process through following ways:

1. Classes through Online platforms using Zoom / Google meet applications
2. LMS (MOODLE)
3. PowerPoint presentations
4. Online Industry Connect
5. Online quiz- Faculties prepare online quiz for students after the completion of each unit on MOODLE. .
6. Recorded Video lectures
7. Online competitions- Various club activities, finishing school activities, Project presentations,, paper presentations etc. are being organized with the help of various Information Communication Tools.
8. Conduction of Seminars, Workshops, conferences- ICT tools are used for conducting workshops Seminars, Workshops, Conferences, STPs, FDPs etc.
9. Conduction of Virtual labs: During the pandemic years, the labs were conducted through virtual mode by recording the experiments and then demonstrated the same with the

students during practical classes. The link of recorded practical classes is as follows:https://www.youtube.com/@mitselectricalengineeringd5524
10. Mentoring MOOC Courses: One faculty mentor per 60 students for a course is assigned to take mentoring sessions

File Description	Documents
Provide link for webpage describing ICT enabled tools including online resources for effective teaching and learning process	https://mitsgwalior.in/ictmits.htm
Upload any additional information	No File Uploaded

2.3.3 - Ratio of students to mentor for academic and other related issues

2.3.3.1 - Number of mentors

122

File Description	Documents
Upload year-wise number of students enrolled and full-time teachers on roll	View File
Circulars with regard to assigning mentors to mentees	View File

2.3.4 - Preparation and adherence to Academic Calendar and Teaching Plans by the institution

Dean, Academics of the institute prepares Academic Calendar in the beginning of the Academic year with the consultation of Director, Dean, Student Welfare and HoDs . Academic calendar contains the relevant information regarding the semester registration, commencement of teaching session, vacations, dates of mid semester examination , end semester examination,proficiency test, internship and academic audits etc. The academic calendar is prepared so that teachers and students should know all the activities well in advance and disseminated to all stakeholders through hard as well soft copies. The calendar is strictly followed. Even during the pandemic times, all academic activities, mid-semester examinations, quizzes for continuous assessment, In-House Summer Internship Programmes, Finishing School, Final year internship, employability skill

training, remedial classes etc. were conducted as scheduled. The departments, and other concerned sections plan their activities as per the academic calendar

Teaching plans:

All faculty members prepare teaching plans as per the time table prepared by the department and uploaded on the MOODLE for students' reference.The course faculty prepare lecture plan as per Multiple Mode Teaching Learning Pattern (MMTLP). The purpose of said teaching plan is

? To identify innovative teaching modes for different types of syllabus content

? To enhance skill development through different modes of teaching-learning

? To include latest developments in the domain catering to the fast changing technological scenario

? To introduce a global perspective into the course.

File Description	Documents
Upload the Academic Calendar and Teaching Plans during the year	View File

2.4 - Teacher Profile and Quality

2.4.1 - Number of full-time teachers against sanctioned posts during the year

174

File Description	Documents
Year-wise full-time teachers and sanctioned posts for the year	View File
List of the faculty members authenticated by the Head of HEI	View File
Any additional information	No File Uploaded

2.4.2 - Number of full-time teachers with PhD/ D.M. / M.Ch. / D.N.B Super-Specialty / DSc / DLitt during the year

53

File Description	Documents
List of number of full-time teachers with PhD./ D.M. / M.Ch. / D.N.B Super-Specialty / D.Sc. / D.Litt. and number of full-time teachers for 5 years	View File
Any additional information	View File

2.4.3 - Total teaching experience of full-time teachers in the same institution: (Full-time teachers' total teaching experience in the current institution)

1561

File Description	Documents
List of teachers including their PAN, designation, Department and details of their experience	View File
Any additional information	View File

2.5 - Evaluation Process and Reforms

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

26

File Description	Documents
List of Programmes and the date of last semester-end / year-end examinations and the date of declaration of result	View File
Any additional information	View File

2.5.2 - Number of students' complaints/grievances against evaluation against the total number who appeared in the examinations during the year

89

File Description	Documents
Upload the number of complaints and total number of students who appeared for exams during the year	View File
Upload any additional information	View File

2.5.3 - IT integration and reforms in the examination procedures and processes including Continuous Internal Assessment (CIA) have brought in considerable improvement in the Examination Management System (EMS) of the Institution

IT integration have been undertaken for Pre Examinations, conduct of examinations, and Post Examination activities through an Integrated Management System and Examination Control Software System with following features:

- semester Enrolment and registration of students.
- Attendance Verification .
- Entering marks of different types of evaluation components.
- Support for calculating Grades and SGPA/CGPA.
- Student Tracking.
- Compilation and Declaration of Results.
- Printing of provisional degrees and migration certificate.
- Generation of reports (nominal report, result analysis, scroll, success index, academic performance index etc.)
- Online Semester/Module Fee Payment.

Reforms in the examination procedures and processes

1. Examination procedures:

Continuous Assessments a. Theory courses: Two mid sem exam in a semester, quizzes, assignmentsb. Practical courses: viva-voce and Skill based mini project

End term evaluation: a. Theory Courses: (i) End sem exam (ii) Course proficiency.b. Practical Courses: End Term Exam 2.Multiple Mode Examination Logical Pattern: (i) MCQ based (ii) Assignment plus Oral, (iii) Pen and Paper.

3. Assessment through Rubrics

4. Credit transfer through MOOC platform:

5. Degree with Honors or Minor Specialization.

6. Online Viva-Voce Examination: Provision has been made to conduct viva-voce examinations through video-conferencing for PG dissertation viva.

7. Setting of question paper based on OBE: As per the guidelines of AICTE exam reform policy the questions of mid sem and end sem exams are mapped with defined Course Outcomes and Bloom's Level of Learning.

8. Transparency in Evaluation System:

9. Evaluation Criteria for Professional Development Course and Skill Based Mini Project, Self Study/ Seminar is framed as per the nature of the course

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

2.6 - Student Performance and Learning Outcomes

2.6.1 - Programme Outcomes and Course Outcomes for all Programmes offered by the institution are stated and displayed on the website and communicated to teachers and students

The mechanism of widely propagating and publicize in program outcomes among the students and teachers is as follows:

1. Institute Website: The program outcomes are displayed by each department on their respective web page of the institute website.
2. Curriculum booklet: Program outcomes are written at the beginning of the curriculum book
3. Class rooms
4. Department Notice Boards
5. Laboratories
6. Department Corridors
7. Student Induction Programs
8. Meetings/ Interactions with stakeholders
9. Faculty meetings:
10. Professional Body meetings
11. HoD cabin

Course Outcomes (COs) are framed at Department level. The department OBE coordinator with the course experts frames the course outcome of their respective subjects using the guidelines for writing course outcomes. The approved COs are then included in the syllabus which are discussed in the Board of Studies meeting for approval.

Course Outcomes (COs) for all courses are communicated to teachers and students by various means:

1. The OBE coordinator of each department mentions the significance of Outcome Based Education to all students during Orientation program conducted at the beginning of each semester. COs are communicated to the students by the class coordinator and other course faculty members.
2. Also each faculty discusses the importance of CO during the introduction class itself.
3. COs along with lesson plan are uploaded on MOODLE.
4. Also, in the beginning of each lecture the learning outcomes of the topic are also focused. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed & discussed with students.

File Description	Documents
Upload COs for all courses (exemplars from the Glossary)	View File
Upload any additional information	No File Uploaded
Link for additional Information	Nil

2.6.2 - Attainment of Programme Outcomes and Course Outcomes as evaluated by the institution

Direct Assessment & Indirect Assessment methods are used for measuring the attainments of POs, PSOs and CO.

- Direct Assessment Methods:

1. Continuous Assessment:

2. For each lab, seminar, project work, rubric based assessment is used where each rubric is mapped with the CO, PO & PSO.

3. Semester-end Theory Examinations:

Indirect Assessment Methods:

1. Course End Survey

2. Exit survey

3. Alumni Survey

4. Employer Survey

Measuring CO attainment:

1.The overall CO attainment level of a course outcome is calculated as weighted sum of attainments obtained by each assessment tools as the rubrics given below:

2.Direct CO attainment=0.7x CO attainment through End Sem Exam + 0.2x CO attainment through Mid Sem Exam + 0.05 x CO attainment through Quiz + 0.05x CO attainment through assignments

3. Indirect CO attainment=0.5* attainment through student feedback+ 0.25*Course End Seminar +0.25* attainment throughone minute paper writing

4. Overall CO attainment Level=0.8* Direct CO attainment+0.2* Indirect CO attainment

Measuring PO/PSO Attainment:

Attainment of POs and PSOs is computed by using direct and indirect assessment methods.

Process for Direct POs, PSOs Assessment:

1. Using CO-PO & CO-PSO matrix for each course, the POs, PSOs attainment for given CO attainment in a course is computed for all the courses.

2. The average of PO attainment in individual Courses is the final direct PO/PSO attainment in the level of 1,2 & 3.

Process Indirect Assessment Tools:

1.Alumni feedback

3. Industrial Feedback

4. Graduate Exit Feedback

PO/PSO Attainment (Overall) = 0.8xDirect Attainment + 0.2x Indirect Attainment

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	**Nil**

2.6.3 - Pass Percentage of students

2.6.3.1 - Total number of final year students who passed in the examinations conducted by Institution

1077

File Description	Documents
Upload list of Programmes and number of students appear for and passed in the final year examinations	[View File](#)
Upload any additional information	[View File](#)
Paste link for the annual report	https://web.mitsgwalior.in/images/NAAC/Annual%20Report%20Exam%202022-23.pdf

2.7 - Student Satisfaction Survey

2.7.1 - Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design its own questionnaire). Results and details need to be provided as a weblink

https://web.mitsgwalior.in/iqac-mn/feedback-iqac

RESEARCH, INNOVATIONS AND EXTENSION

3.1 - Promotion of Research and Facilities

3.1.1 - The institution's research facilities are frequently updated and there is a well-defined policy for promotion of research which is uploaded on the institutional website and implemented

The institute is actively promoting research through various initiatives, with the Board of Governors taking a keen interest in research outcomes. The institute has a well-documented policy for promotion of research, approved by the BoG in their meetings, which is reviewed periodically. The institute has successfully implemented several new initiatives post-accreditation, including seed money for research, awarding faculty members who publish papers in indexed journals, conducting workshops on research methodology, offering research internships to final year students under faculty mentorship, and adhering to plagiarism guidelines. The institute has also established dedicated research groups and centers, conducted conferences and workshops in emerging areas, and organized an International Conference Series on Sustainable and Innovative Solutions for Current Challenges in Engineering & Technology (ICSISCET) since 2019. It has also established a start-up cell to promote need-based, marketable research, and increased patents applied/awarded/published. The institute supports research scholars as Research Assistants, National Doctoral Fellows, and Quality Improvement Programme. A Research Advisory Committeeis constituted for each Ph.D. scholar, with six monthly reviews of scholars. Clear norms are in place for providing support to faculty members pursuing Ph.D from other institutes.

File Description	Documents
Upload the Minutes of the Governing Council/ Syndicate/Board of Management related to research promotion policy adoption	[View File](#)
Provide URL of policy document on promotion of research uploaded on the website	https://web.mitsgwalior.in/index.php/research-policy
Any additional information	No File Uploaded

3.1.2 - The institution provides seed money to its teachers for research

3.1.2.1 - Seed money provided by the institution to its teachers for research during the year (INR in lakhs)

0

File Description	Documents
Minutes of the relevant bodies of the institution regarding seed money	**No File Uploaded**
Budget and expenditure statements signed by the Finance Officer indicating seed money provided and utilized	View File
List of teachers receiving grant and details of grant received	**No File Uploaded**
Any additional information	**No File Uploaded**

3.1.3 - Number of teachers who were awarded national / international fellowship(s) for advanced studies/research during the year

1

File Description	Documents
e-copies of the award letters of the teachers	View File
List of teachers and details of their international fellowship(s)	View File
Any additional information	**No File Uploaded**

3.2 - Resource Mobilization for Research

3.2.1 - Grants received from Government and Non-Governmental agencies for research projects, endowments, Chairs during the year (INR in Lakhs)

25.3

File Description	Documents
e-copies of the grant award letters for research projects sponsored by non-governmental agencies/organizations	View File
List of projects and grant details	View File
Any additional information	**No File Uploaded**

3.2.2 - Number of teachers having research projects during the year

3

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional Information	**Nil**
List of research projects during the year	View File

3.2.3 - Number of teachers recognised as research guides

53

File Description	Documents
Upload copies of the letter of the university recognizing teachers as research guides	**No File Uploaded**
Institutional data in Prescribed format	View File

3.2.4 - Number of departments having research projects funded by Government and Non-Government agencies during the year

3

File Description	Documents
Supporting document from Funding Agencies	View File
Paste link to funding agencies' website	**Nil**
Any additional information	**No File Uploaded**

3.3 - Innovation Ecosystem

3.3.1 - Institution has created an ecosystem for innovations and creation and transfer of knowledge supported by dedicated centres for research, entrepreneurship, community orientation, incubation, etc.

The Institute was named a "Promising Institute" in the category Colleges/Institutes (Govt. & Govt. Aided) (Technical) in the Ministry of Education's Atal Ranking of Institutions on Innovation Achievements" (ARIIA) for the year 2021. All of the core engineering departments have dedicated research and innovation centres. In addition to the Institute's support, these facilities are funded by the Department of Science and Technology

(DST) through the FIST-Level zero, AICTE-MODROB, and AICTE-RPS schemes. The Institute has over 100 Ph.D. scholars working on research. IPR is generated in the form of products, patents, publications, and human resources. These facilities are used for faculty, staff, and student training. The research findings are shared with faculty and students from other departments via various faculty training programmes, FDPs, and so on. Students at the undergraduate and graduate levels also work on projects and dissertations, and they are encouraged to publish/present their papers at national and international conferences. Submission of a project/thesis requires the publication/presentation of at least one paper in a journal or conference.

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.3.2 - Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR), Entrepreneurship and Skill Development during the year

8

File Description	Documents
Report of the events	No File Uploaded
List of workshops/seminars conducted during the year	View File
Any additional information	No File Uploaded

3.4 - Research Publications and Awards

3.4.1 - The Institution ensures implementation of its Code of Ethics for Research uploaded in the website through the following: Research Advisory Committee Ethics Committee Inclusion of Research Ethics in the research methodology course work Plagiarism check through authenticated software	A. All of the above

File Description	Documents
Code of Ethics for Research, Research Advisory Committee and Ethics Committee constitution and list of members of these committees, software used for plagiarism check	[View File](#)
Any additional information	No File Uploaded

3.4.2 - Number of PhD candidates registered per teacher (as per the data given with regard to recognized PhD guides/ supervisors provided in Metric No. 3.2.3) during the year

3.4.2.1 - Number of PhD students registered during the year

115

File Description	Documents
URL to the research page on HEI website	Nil
List of PhD scholars and details like name of the guide, title of thesis, and year of registration	[View File](#)
Any additional information	No File Uploaded

3.4.3 - Number of research papers per teacher in CARE Journals notified on UGC website during the year

0.5

File Description	Documents
List of research papers by title, author, department, and year of publication	[View File](#)
Any additional information	No File Uploaded

3.4.4 - Number of books and chapters in edited volumes / books published per teacher during the year

0.2

File Description	Documents
Upload any additional information	View File
Paste link for additional information	Nil

3.4.5 - Bibliometrics of the publications during the year based on average Citation Index in Scopus/ Web of Science/PubMed

3.4.5.1 - Total number of Citations in Scopus during the year

1263

File Description	Documents
Any additional information	No File Uploaded
Bibliometrics of the publications during the year	View File

3.4.6 - Bibliometrics of the publications during the year based on Scopus/ Web of Science – h-Index of the University

3.4.6.1 - h-index of Scopus during the year

11

File Description	Documents
Bibiliometrics of publications based on Scopus/ Web of Science - h-index of the Institution	View File
Any additional information	No File Uploaded

3.5 - Consultancy

3.5.1 - Revenue generated from consultancy and corporate training during the year (INR in lakhs)

61.2

File Description	Documents
Audited statements of accounts indicating the revenue generated through consultancy and corporate training	View File
List of consultants and revenue generated by them	No File Uploaded
Any additional information	No File Uploaded

3.5.2 - Total amount spent on developing facilities, training teachers and clerical/project staff for undertaking consultancy during the year

0

File Description	Documents
Audited statements of accounts indicating the expenditure incurred on developing facilities and training teachers and staff for undertaking consultancy	View File
List of training programmes, teachers and staff trained for undertaking consultancy	No File Uploaded
List of facilities and staff available for undertaking consultancy	No File Uploaded
Any additional information	No File Uploaded

3.6 - Extension Activities

3.6.1 - Extension activities carried out in the neighbourhood sensitising students to social issues for their holistic development, and the impact thereof during the year

Students are being taught social responsibility by the Institute. National Service Scheme (NSS) activities are required for all second year students. Blood donation, tree planting, aids awareness, and Swachhata Abhiyaan are all conducted on a regular basis. By distributing short videos/messages/appeals that went viral among students, the Holistic Health Club launched awareness drives. NSS conducted activity "Blanket Distribution to Poor and Needy people in Winter Season" on 18th January, 2023 Thursday. By this activity, 40 blind girls of Aatmjyoti Awasiya Dristiheen Kanya Vidhalaya got benefited. NSS conducted activity "Burger Music Party for especially abled Children" on 2nd March, 2023

Thursday and 45 blind girls of Aatmjyoti Awasiya Dristiheen Kanya Vidhalaya, enjoyed the event. Training session cum Awareness programme for self-defence: Women and Girls were conducted on 07-Sep-2022 (04:00 PM to 06:00 PM) by the department of CSE and more than 100 girl students/ faculty members participated and learned from the event. A Health Check-up Drive drive was held on campus in collaboration with DR LAL PATH LABS; 23 people were benefited by the conducted drive.

File Description	Documents
Upload any additional information	No File Uploaded
Paste link for additional information	Nil

3.6.2 - Number of awards and recognition received by the Institution, its teachers and students for extension activities from Government / Government-recognised bodies during the year

0

File Description	Documents
Number of awards for extension activities in during the year	View File
e-copy of the award letters	View File
Any additional information	No File Uploaded

3.6.3 - Number of extension and outreach programmes conducted by the institution through NSS/NCC/Red Cross/YRC, etc. during the year (including Government-initiated programmes such as Swachh Bharat, AIDS Awareness, and Gender Sensitization and those organised in collaboration with industry, community and NGOs)

4

File Description	Documents
Reports of the events organized	View File
Any additional information	No File Uploaded

3.6.4 - Number of students participating in extension activities listed in 3.6.3 during the year

338

File Description	Documents
Reports of the events	View File
Any additional information	No File Uploaded

3.7 - Collaboration

3.7.1 - Number of collaborative activities during the year for research/ faculty exchange/ student exchange/ internship/ on-the-job training/ project work

204

File Description	Documents
Copies of documents highlighting collaboration	View File
Any additional information	No File Uploaded

3.7.2 - Number of functional MoUs with institutions of national and/or international importance, other universities, industries, corporate houses, etc. during the year (only functional MoUs with ongoing activities to be considered)

10

File Description	Documents
e-copies of the MoUs with institution/ industry/ corporate house	No File Uploaded
Details of functional MoUs with institutions of national, international importance, other institutions etc. during the year	View File
Any additional information	No File Uploaded

INFRASTRUCTURE AND LEARNING RESOURCES

4.1 - Physical Facilities

4.1.1 - The Institution has adequate infrastructure and physical facilities for teaching-learning, viz., classrooms, laboratories, computing equipments, etc.

The Institute, located on 44.6 acres of lush green land, offers a variety of classrooms, laboratories, and computing equipments. With 59 class rooms, 68 labs, 615 computers, and virtual labs, the Institute provides hands-on experience for students and teachers. The Institute also provides licensed and open software, such as ANSYS, MATLAB, PS CAD, Proteus Design Suite, Office Pro

Plus 2016, SQL Server ST2016, and Turnitin. Internet connectivity
is available via a 100 MBPS lease line from NKN and 100 MBPS from
IshanNetsol. The campus is Wi-Fi enabled with 24/7 access for
students and staff. The Institute has a state-of-the-art MOOC
development center, a MOODLE server, and a NPTEL local chapter
for e-learning through MOOC courses. The Institute has a shop for
Xerox and stationery, as well as a boys and girls hostel with
facilities like mess. The Institute hasadministrative block,
academic infrastructure, and amenities to accommodate the
increasing student intake. In recent years, improvements have
been made in physical infrastructure, equipment, library, and
digital teaching-learning facilities to meet the needs of the
growing student population and market demand for emerging
technology areas. The Institute offers a well-equipped
environment for providing a conducive learning environment for
students.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	Nil

4.1.2 - The institution has adequate facilities for cultural activities, yoga, sports and games (indoor and outdoor) including gymnasium, yoga centre, auditorium etc.)

The Institute is dedicated to holistic student development and
has established a Students Development Cell under the Dean of
Students Welfare to promote and organize extracurricular and co-
curricular activities. The Institute has a well-developed cricket
ground, basketball courts, football/hockey grounds, volleyball
courts, and a courtyard ground for sports activities. Indoor
sports facilities include table tennis in the canteen area and in
girls and boys' hostels, as well as chess, carom, and skipping
ropes in girl's hostel. Indoor cultural activities are conducted
in various facilities such as a conclave center, colloquium,
conference hall, and area near the main porch. Outdoor cultural
activities are held in open air auditoriums, courtyards, and
other open spaces with a capacity of 500 personsin the main
ground and a capacity 200 persons in the open air auditorium in
the courtyard. Yoga activities are conducted on a dedicated yoga
platform nearby the open air gymnasium and other open spaces. The
Institute has three gymnasiums, one open air and two indoor,
equipped with the latest equipment and machines like: exercise
cycle, treadmill, elliptical cross trainer, air walker, horse

ride station, pull chair, rowing machine, double cross walker, leg press and exercise bar, seated chest press etc.

File Description	Documents
Geotagged pictures	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional information	**Nil**

4.1.3 - Number of classrooms and seminar halls with ICT-enabled facilities

59

File Description	Documents
Upload any additional information	**No File Uploaded**
Upload Number of classrooms and seminar halls with ICT enabled facilities (Data Template)	[View File](#)

4.1.4 - Expenditure for infrastructure augmentation, excluding salary, during the year (INR in Lakhs)

618.21

File Description	Documents
Upload audited utilization statements	**No File Uploaded**
Details of Expenditure, excluding salary, during the years	[View File](#)
Any additional information	**No File Uploaded**

4.2 - Library as a Learning Resource

4.2.1 - Library is automated using Integrated Library Management System (ILMS)

The Learning Resource Centre of the Institute has implemented a Web-Based Koha 19.11.29 Integrated Library Management System to automate routine activities. The library is equipped with modern technologies such as RFID, Bar Code Technology, Remote Access facility, Federated Search, and Mobile Apps for Android and iOS

users. The library offers Intranet OPAC and Web OPAC (Online Public Access Catalogue) facilities for book availability, which can be accessed both within and outside the campus. Koha provides an enhanced user experience through value-added features, including MARC 21 Cataloguing, Barcode enabled with RFID integration, integration with RFID & barcode readers, more interactive and enhanced Web OPAC, and full Unicode support. The library subscribes to over 3300+ e-journals from reputed publishers, including ASME, ASCE, and Jstor, and over 4412+ titles of e-books from McGraw-Hill, Pearson Education, Newage International, Khanna, Laxmi, and millions of e-books from the World eBook Library and South Asian Archive provided by INFLIBNET ESodhsindhu. The Central Library provides access to various e-resources through its MITS e-Library portal. The MITS e-Library Portal offers 24*7 access to over 5 lakh+ e-resources, a single window search facility, a mobile app for Android and iOS users, news alerts, and a SocioLib feature.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/index.php/life-at-mits/central-facilities/library

4.2.2 - Institution has access to the following: e-journals e-ShodhSindhu Shodhganga Membership e-books Databases Remote access to e-resources

A. Any 4 or more of the above

File Description	Documents
Details of subscriptions like e-journals, e-books, e-ShodhSindhu, Shodhganga membership	[View File](#)
Upload any additional information	[View File](#)

4.2.3 - Expenditure on purchase of books/ e-books and subscription to journals/e-journals during the year (INR in lakhs)

0.24527

File Description	Documents
Audited statements of accounts	View File
Any additional information	No File Uploaded
Details of annual expenditure for purchase of books/e-books and journals/e- journals during the year (Data Template)	View File

4.2.4 - Usage of library by teachers and students (footfalls and login data for online access)

4.2.4.1 - Number of teachers and students using the library per day during the year

802

File Description	Documents
Upload details of library usage by teachers and students	View File
Any additional information	View File

4.3 - IT Infrastructure

4.3.1 - Institution has an IT policy covering Wi-Fi, cyber security, etc. and has allocated budget for updating its IT facilities

IT policies may be classified into following groups:

- **IT Hardware Installation Policy**

- **Software Installation and Licensing Policy**

- **Network (Intranet & Internet) Use Policy**

- **E-mail Account Use Policy**

- **Institute Database Use Policy**

The policies will be applicable at two levels:

- **End Users Groups (Faculty, students, Senior administrators, Officers and other staff)**

- **Network Administrators**

The objective is to provide secured and monitored access to software, hardware and internet to all users of the Institute 24x7.

File Description	Documents
Upload any additional information	**No File Uploaded**
Paste link for additional information	https://web.mitsgwalior.in/images/NAAC/4/IT%20Policy.pdf

4.3.2 - Student - Computer ratio

Number of Students	Number of Computers
5244	**615**

File Description	Documents
Upload any additional information	**No File Uploaded**

4.3.3 - Bandwidth of internet connection in the Institution and the number of students on campus	**A. ?50 Mbps**

File Description	Documents
Details of bandwidth available in the Institution	View File
Upload any additional information	**No File Uploaded**

4.3.4 - Institution has facilities for e-content development: Facilities available for e-content development Media Centre Audio-Visual Centre Lecture Capturing System (LCS) Mixing equipments and software for editing	**A. All four of the above**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/academics/quality-initiatives/mits-moocs
List of facilities for e-content development (Data Template)	[View File](#)

4.4 - Maintenance of Campus Infrastructure

4.4.1 - Expenditure incurred on maintenance of physical and academic support facilities, excluding salary component, during the year (INR in lakhs)

463.09

File Description	Documents
Audited statements of accounts	[View File](#)
Upload any additional information	[View File](#)

4.4.2 - There are established systems and procedures for maintaining and utilizing physical, academic and support facilities – classrooms, laboratory, library, sports complex, computers, etc.

The Institute has established systems and procedures for monitoring and maintaining infrastructure, libraries, sports facilities, laboratories, classrooms, and seminar halls. Four maintenance cells are developed: Civil Maintenance Cell, Electrical Maintenance Cell, ICT Maintenance Cell, and General Maintenance Cell. Civil Maintenance Cell maintains physical infrastructure facilities, while Electrical Maintenance Cell ensures uninterrupted power supply and maintenance of electrical assets. ICT Maintenance Cell maintains facilities like computers, Wi-Fi, and security systems, while General Maintenance Cell keeps the campus clean and maintains water supply and sewage treatment. The institute maintains various services, including electrical, plumbing, and housekeeping, through separate complaint registers and an e-system. Minor work is done by labor and artisans, while major maintenance is done through the Annual Maintenance Contract System. Labs are maintained by lab in-charges and technical staff. Utilization reports are maintained by lab in-charges and HoDs. Advanced and expensive equipment is maintained through the Annual Maintenance Contract. The institute maintains various facilities, including the Central Library, sports offices, and

computer centers. Standard Operating Procedures (SOPs) are maintained in all labs and computer centers. Class rooms are allocated to departments and cleaned daily, with HODs and class coordinators monitoring cleanliness.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/images/NP/ACM/Infrastructure%20Maintenance%20Policy-1.pdf

STUDENT SUPPORT AND PROGRESSION

5.1 - Student Support

5.1.1 - Number of students benefitted by scholarships and freeships provided by the Government during the year

1749

File Description	Documents
Upload self-attested letters with the list of students receiving scholarships	[View File](#)
Upload any additional information	**No File Uploaded**

5.1.2 - Number of students benefitted by scholarships and freeships provided by the institution and non-government agencies during the year

6

File Description	Documents
Upload any additional information	**No File Uploaded**
Institutional data in prescribed format	[View File](#)

5.1.3 - The following Capacity Development and Skill Enhancement activities are organised for improving students' capabilities Soft Skills Language and Communication Skills Life Skills (Yoga, Physical fitness, Health and Hygiene)	**A. All of the above**

Awareness of Trends in Technology

File Description	Documents
Link to Institutional website	**Nil**
Details of capability development and schemes	View File
Any additional information	**No File Uploaded**

5.1.4 - Number of students benefitted from guidance/coaching for competitive examinations and career counselling offered by the institution during the year

1001

File Description	Documents
Any additional information	**No File Uploaded**
Number of students benefited by guidance for competitive examinations and career counseling during the year (Data Template)	View File

5.1.5 - The institution adopts the following mechanism for redressal of students' grievances, including sexual harassment and ragging: Implementation of guidelines of statutory/regulatory bodies Creating awareness and implementation of policies with zero tolerance Mechanism for submission of online/offline students' grievances Timely redressal of grievances through appropriate committees	**A. All of the above**

File Description	Documents
Minutes of the meetings of students' grievance redressal committee, prevention of sexual harassment committee and Anti-ragging committee	View File
Details of student grievances including sexual harassment and ragging cases	View File
Upload any additional information	View File

5.2 - Student Progression

5.2.1 - Number of outgoing students who got placement during the year

607

File Description	Documents
Self-attested list of students placed	**No File Uploaded**
Upload any additional information	View File

5.2.2 - Number of outgoing students progressing to higher education

44

File Description	Documents
Upload supporting data for students/alumni	**No File Uploaded**
Details of students who went for higher education	View File
Any additional information	**No File Uploaded**

5.2.3 - Number of students qualifying in state/ national/ international level examinations during the year

5.2.3.1 - Number of students who qualified in state/ national/ international examinations (e.g.: IIT-JAM/NET/SET/JRF/ GATE /GMAT /CAT/ GRE/ TOEFL/Civil Services/State government examinations) during the year

59

File Description	Documents
Upload supporting data for students/alumni	<u>View File</u>
Any additional information	**No File Uploaded**

5.3 - Student Participation and Activities

5.3.1 - Number of awards/medals for outstanding performance in sports and/or cultural activities at inter-university / state /national / international events (award for a team event should be counted as one) during the year

253

File Description	Documents
e-copies of award letters and certificates	<u>View File</u>
Any additional information	**No File Uploaded**

5.3.2 - Presence of an active Student Council and representation of students in academic and administrative bodies/committees of the institution

`Students are nominated in BoS, Alumni Cell and Placement Cell at the department level.

· All the student clubs in the institute are managed by student bodies.

· Student volunteers are assigned duties for the smooth conduction of campus placements.

· Group of students are nominated by the Heads of Department as OBE coordinators who help in dissemination of OBE related information.

· Gender Champions for establishing gender equity on campus are nominated by the class coordinators/Heads of Deptt from each deptt, boys as well as girls.

· There are placement coordinators and volunteers for managing placement activities.

· Student representatives nominated to work as alumni coordinators for tracing, storing and involving alumni in the department activities.

- **Senior students work as mentors to junior students; each senior student has 3 first year students to mentor.**

- **Student representatives are there in the anti-ragging committee of the institute.**

- **There are class representatives in each class nominated by the class coordinators.**

- **Students are involved as office bearers in the innovation cell and start-up cell.**

- **Students are members of Hostel mess committees.**

- **Two student representatives are members of the IQAC.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://drive.google.com/file/d/1Nl1O-LtPz-IUK4vfSDNr3eczjSc3GqZL/view?usp=sharing

5.3.3 - Number of sports and cultural events / competitions organised by the institution

37

File Description	Documents
Report of the event	**No File Uploaded**
List of sports and cultural events / competitions organised per year	[View File](#)
Upload any additional information	**No File Uploaded**

5.4 - Alumni Engagement

5.4.1 - The Alumni Association and its Chapters (registered and functional) contribute significantly to the development of the institution through financial and other support services

Alumni Association: The institute alumni association is registered and functional. The MITS Alumni Association operates from its permanent office located in MITS Campus.

Alumni Chapters: The alumni chapters are also functional and

organizing activities in the chapters. The alumni chapters are functional in Gwalior, Delhi, Bhopal and Indore. Soon chapters will be started in Bangalore, Hyderabad, Pune, Mumbai and Chennai

Financial Contribution:

- During the year 2022-2023 alumni contribution received to the institute is about Rs. 3,40,000.
- Alumni also sponsored good projects from the students.
- Financial support provided by alumni chapters to NGO's and primary/high schools students.
- Contribution towards the alumni related events.
- Donation of caution money towards the alumni fund.
- There are a number of scholarships initiated by the alumni for supporting students who are meritorious and from economically weaker sections of the society.

Non-Financial Contribution

- The representatives of the Alumni in (i) BoG (ii) IQAC and (iii) BoS
- The alumni are involved in curriculum development and are helping in strengthening industry interaction.
- Provides feedback on curriculum, syllabus and advanced technologies so that the institute can prepared industry-ready students.
- Discussions were held to help the Institute with practical work and development. This was arranged with knowledge of Alumni working in various organizations, as on doing individual entrepreneurship.
- The alumni help in internships and job placements.
- The alumni help in organizing industrial visits, interactions etc.

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	Nil

5.4.2 - Alumni's financial contribution during the year	D. 2 Lakhs - 5 Lakhs

File Description	Documents
Upload any additional information	View File

GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 - Institutional Vision and Leadership

6.1.1 - The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the Institution

The institute is managed by the Scindia Engineering College Society (SECS) which is registered under the Societies Registration Act No. 53 of 1950 (no. 337 of 1956). The Institute functions under the chairmanship and guidance of the H.H. Jyotiraditya M. Scindia, Educationalist and other BoG Members. The Institute is administered by the Director of with other faculty members holding the significant administrative and academics responsibilities. The roles and responsibilities of each functionary are defined and the same are available on Institute website.

The Vision, Mission, branding Statement and value framework is aligned with the perspective plan prepared after SWOT analysis, based on departmental vision and stakeholders' feedback.

There is active participation of the teachers in the decision-making bodies of the institution, such Internal Quality Assurance Cell, Academic Council, Academic Development Cell, Student Development Cell, Board of Studies, Research Committee, Proctorial Board, Internal Audit Committee, Industry-Institute-Interaction Cell, Library Advisory Committee, Women Guidance, Grievances and Redressal Committee , Girls Grievance Cell, Students Grievances Cell, Discipline Committee, Central Purchase Committee, Anti Ragging Committee as per guidelines of Honorable Supreme Court of India, Internal Complaint Committee (ICC) for Women (Students & Staff) for Sexual Harassment at workplace, Hostel Admission Committee, Building Committee etc.

File Description	Documents
Upload any additional information	View File
Paste link for additional Information	https://web.mitsgwalior.in/index.php/admin management

6.1.2 - Effective leadership is reflected in various institutional practices such as decentralization and participative management

The HoDs, Proctor, Deans have well defined duties.

Powers are given to Class Coordinators to ensure decentralization of all processes, monitoring records of attendance, student leaves, forwarding various documents & applications of students and final forwarding of examination form.

For each initiative taken by the IQAC separate coordinators are appointed at the department level to help in administration of the different activities such as -

OBE coordinator monitors activities related to attainment of COs through direct and indirect assessment, development of rubrics, computation of POs/PEOs, setting of targets, corrective actions, gap analysis, question paper analysis on the basis of LOTs/HOTs/Bloom's Taxonomy etc.

Coordinator for remedial/bridge classes, Web coordinator for departmental web page management, Coordinator for departmental e-Newsletter, Alumni coordinator for enhancing and managing alumni interaction and Plagiarism administrator l have clearly defined responsibilities.

Case Study: One of the most successful best practices at MITS is the use of MOODLE for all teachinglearning-evaluation activities. This has been possible due to the role played by the MOODLE coordinator who created awareness by conducting special sessions to address queries of students and faculty from time to time and facilitated effective utilization of the MOODLE for Quiz, Feedbacks, assignments, midterm evaluation etc.

File Description	Documents
Upload strategic plan and deployment documents on the website	[View File](#)
Upload any additional information	[View File](#)
Paste link for additional Information	https://web.mitsgwalior.in/about-institute/duties-and-responsibilities

6.2 - Strategy Development and Deployment

6.2.1 - The institutional Strategic/ Perspective plan has been clearly articulated and implemented

The Institute has developed a strategic plan to ensure the vision & mission of Institute at Academic & Administrative levels. The Board of Governors of the Institute has approved the plans & continuously monitoring the same for effective implementation & progress of the plan specific activities to ensure the quality education.

The Perspective Plan of the Institute is prepared for the development up to 2023. Apart from monitoring by BoG, the state government also monitors the progress and implementation through review meetings. Clear targets are set for different activities and achievements of specific goals such as achieving Accreditation Status, Faculty Recruitment, Academic Reforms, Academic Improvement Projections, Students Progression Targets, Allocation of Development funds for IT and other learning Infrastructure, Laboratories and Innovations, research & development, Faculty Knowledge Enhancement and student Activities, strengthening of Technical & Internal Support system, providing student Support, alumni engagement, industry interaction, Internationalization etc.

For effective implementation of the National Education Policy (NEP-2020) clear annual projections and numeric goals have been planned. The details were finalized after discussion in the meeting of the Human Resource Development committee of the instate in its meeting in July 2021, where a few administrative heads of the top national institute were also invited.

Additional information at:
https://web.mitsgwalior.in/index.php/perspective

File Description	Documents
Strategic Plan and deployment documents on the website	View File
Paste link for additional information	https://web.mitsgwalior.in/images/NAAC/Perspective%20Plan%20MITS%20Gwalior.pdf
Upload any additional information	No File Uploaded

6.2.2 - The functioning of the various institutional bodies is effective and efficient as visible from

the policies, administrative set-up, appointment and service rules, procedures, etc.

The Board of Governors ensure the establishment/monitoring of effective and efficient systems of control and accountability to ensure Outcome Based Quality Education as per the vision of the Institute.

- The day-to-day administrative affairs of the College are managed by the Director of the Institute through a decentralized system to ensure the proper conduct of all the academic/research/development/extension activities.
- The administrative responsibilities are shared by the Dean-Academics, Dean-Students Welfare, Registrar, Exam Controller, Proctor, Heads of the Department, Deputy Registrar and Finance officer.
- Decentralized mechanism exists in the Institute, the other faculty as per abilities/choice & interests are assigned the responsibility of coordinator/In-charge/member of committee for empowerment and one to one interaction with the stakeholders.
- The various administrative responsibilities as shown in organizational chart of the institute and committees including anti-ragging & Grievance redressal committees have been formed for power delegation and decentralization of authority for the effective/efficient functioning of the institution in all its spheres of planning, decision-making and implementation.
- The Board of Governors of the Institute is playing a crucial role in the growth of the Institute in terms of Quality & Quantity through various meetings and visits in the Institute.
- link to Organogram on the institution webpage : https://web.mitsgwalior.in/images/NAAC/orgchart.pdf

File Description	Documents
Paste link to Organogram on the institution webpage	https://web.mitsgwalior.in/images/NAAC/org chart.pdf
Upload any additional information	View File
Paste link for additional Information	Nil

6.2.3 - Implementation of e-governance in areas of operation: Administration Finance	A. All of the above

and Accounts Student Admission and Support Examination

File Description	Documents
ERP (Enterprise Resource Planning) Documen	View File
Screen shots of user interfaces	View File
Details of implementation of e-governance in areas of operation	View File
Any additional information	No File Uploaded

6.3 - Faculty Empowerment Strategies

6.3.1 - The institution has effective welfare measures for teaching and non-teaching staff and avenues for their career development/ progression

The welfare measures for the teaching and non-teaching staff are successfully implemented in the Institution, the following benefits are given to the teaching and non-teaching staff:

- Schemes as per MP Govt. norms such as Gratuity, GPF, Pension, Commutation of Pension, leaves, EL encashment, University Welfare Scheme, etc.
- Promotions/upgradation/career advancement etc as per government/institute norms
- Encouragement and Financial Support to the faculty & staff to attend workshops, conferences, and other faculty & staff development/Training programmes with leave
- Seed Money to faculty for research
- The teaching/non-teaching staff are given appreciation letters & Awards for outstanding performance in teaching, research and administration.
- Financial assistance to conduct In-house faculty & staff development programme.
- Conduction of FDP/STTP/workshops/training programmes on emerging areas
- Conduction of Induction programmes for the newly recruited faculty & staff.
- Conduction of various training programmes on pedagogical approaches, Finance Management System, MS-Office, office management for non-teaching staff, and waste management, operating fire extinguisher training for other domestic staff.
- Grievance Redressal Cell to address the issues and

grievances of the faculty & staff.
- Availability of full-time professional counsellor for faculty & staff.
- Gymnasium, Sports & Games facility
- Group Insurance Scheme for teaching and non-teaching staff.
- Teachers' Welfare Fund.
- Free health check-up camps, Medical Dispensary

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/index.php/welfare-measures-for-career-development-progression

6.3.2 - Number of teachers provided with financial support to attend conferences / workshops and towards payment of membership fee of professional bodies during the year

4

File Description	Documents
Upload any additional information	[View File](#)
Details of teachers provided with financial support to attend conference, workshops etc during the year (Data Template)	[View File](#)

6.3.3 - Number of professional development / administrative training programmes organized by the Institution for its teaching and non-teaching staff during the year

10

File Description	Documents
Reports of the Human Resource Development Centres (UGC HRDC/ASC or other relevant centres)	[View File](#)
Upload any additional information	[View File](#)

6.3.4 - Number of teachers who have undergone online/ face-to-face Faculty Development Programmes during the year: (Professional Development Programmes, Orientation / Induction Programmes, Refresher Courses, Short-Term Course, etc.)

33

File Description	Documents
Summary of the IQAC report	View File
Reports of the Human Resource Development Centres (UGC ASC or other relevant centers)	View File
Upload any additional information	View File

6.4 - Financial Management and Resource Mobilization

6.4.1 - Institution conducts internal and external financial audits regularly

Internal and External Financial Audits

The Institute is Grant-in-Aid of M.P. Govt. and receives Annual Block Grant from the State of Madhya Pradesh. The Institute has following mechanism for conducting audits on the financial transactions every year to ensure financial compliance

- **The Copies of sanction of Budget/NoteSheets, invoice and bills, and supporting documents of every purchase is maintained by the concerned section/Departments and the original documents are maintained in the finance & accounts section of the Institution. The details of all the expenditures / transactions of the entire financial year are maintained in the accounts office.**
- **There is a Resident Auditor of Govt. of Madhya Pradesh and the Pre-auditing system exists in the Institute. However, Post Audit is conducted by Office of the Accounts General, Govt. of India periodically.**
- **Funds received from Management and other Government bodies, individual etc., are audited by Chartered Accountant appointed by the Society/Board of Governors of the Institute.**
- **The internal finance committee of Institute thoroughly verifies the income and expenditure details and the compliance report of internal audit is submitted to the Society of the institution through Director**
- **To maintain the transparency, the Institute publishes audited reports on the institute website for the stakeholders**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/audit-statements

6.4.2 - Funds / Grants received from non-government bodies, individuals, and philanthropists during the year (not covered in Criterion III and V) (INR in lakhs)

`0`

File Description	Documents
Annual statements of accounts	**No File Uploaded**
Details of funds / grants received from non-government bodies, individuals, philanthropists during the year	**No File Uploaded**
Any additional information	**No File Uploaded**

6.4.3 - Institutional strategies for mobilisation of funds and the optimal utilisation of resources

`Adequacy of budget allocation`

`As per perspective plan of the Institute, BoG of the Institute allocates the fund to meet out the targets decided for quality education. BoG of the Institute has also decided that funds should not be a hindrance factor to achieve the vision of the Institute. Adequacy of allocated budget and expenditure is monitored through finance committee and BoG of the Institute.`

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	https://web.mitsgwalior.in/audit-statements

6.5 - Internal Quality Assurance System

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing quality assurance strategies and processes visible in terms of incremental improvements made during the preceding year with regard to quality (in case of the First Cycle): Incremental improvements made during the preceding year with regard to quality and post-accreditation

quality initiatives (Second and subsequent cycles)

Post Accrediataion Initiatives

Response:

- Mechanism for slow-fast learners
- Value added courses
- Effective implementation of Flexible Curriculum and NEP-2020
- Credit transfer from MOOCs NPTEL local chapter
- Multiple mode teaching learning pattern (MMTLP)
- Academic and administrative audit (AAA)
- Faculty feedback index (FFI) for monitoring T-L-E
- Digitization of classrooms
- Innovative research scheme
- Partial course delivery by industry professional
- 400 plus industry collaborations for full VIII semester internship
- In-house summer internship programmes
- Orientation programmes
- Establishment of gender-sensitive culture, events
- Alumni donations
- State-of-the-art digital studio MOOC development
- Installation of 100kWp roof-top solar plant
- Computation of Administrative Efficiency Index
- Awarding meritocracy

Contribution of IQAC in institutionalizing quality practices through continuous monitoring & review

1.Computation of Administrative Efficiency Index

- To increase the effectiveness of T-L-E & other identified quality initiatives
- To quantify the performance of departments of the institution
- Institutionalization of practices

EVIDENCE OF REVIEW BY IQAC Review by IQAC on 30/12/2022

[2] Student feedback & computation of Faculty Feedback Index (FFI)

- The previous two modes of conduction of student feedback were Google forms & MOODL.

- **in Google forms feedback links were transferable.**
- **In MOODLE there was a scope for adding students from different classes**
- **All these anomalies are removed in the present IMS-based feedback system**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/administration/iqac-m

6.5.2 - The institution reviews its teaching-learning process, structures and methodologies of operation and learning outcomes at periodic intervals through its IQAC as per norms

The IQAC performs a review of all quality practices including teaching & learning. The various reports on are uploaded on the web page of the IQAC. The two practices given here are

1. Regular Academic Audit :-

- **The institute periodically reviews all academic practices twice a year, one by internal committee, other by external experts.**
- **The reports are presented in the IQAC for review.**
- **The review parameters are divided into three criteria. Criterion I: Availability of Records & Data Management, Criterion II: Teaching Learning Practices and Criterion III: Quality Improvement Initiatives.**

2.Regular reviews of teaching-learning process by the IQAC

- **Quality practices such as 'development & implementation of the Flexible Curriculum', 'slow-fast learner mechanism', attainment of COs & POs, remedial class mechanism, analysis of feedback, question paper, curriculum, status of MOOC development at MITS.**
- **Reports/ compliance on all regular practices are presented in the quarterly meetings of the IQAC.**
- **The IQAC sets deadlines for quality practices/activities and a six monthly monitoring through the "Administrative Efficiency Index" (AEI) is carried out.**

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional information	https://web.mitsgwalior.in/administration/iqac-m

6.5.3 - Quality assurance initiatives of the institution include Regular meeting of the IQAC Feedback collected, analysed and used for improvement of the institution Collaborative quality initiatives with other institution(s) Participation in NIRF Any other quality audit recognized by state, national or international agencies (such as ISO Certification)	**A. Any 4 or all of the above**

File Description	Documents
Paste the web link of annual reports of the Institution	https://web.mitsgwalior.in/index.php/qualityassurance
Upload e-copies of accreditations and certification	View File
Upload details of quality assurance initiatives of the institution	View File
Upload any additional information	**No File Uploaded**

INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 - Institutional Values and Social Responsibilities

7.1.1 - Measures initiated by the Institution for the promotion of gender equity during the year

MITS Gwalior has gained national recognition for its academic excellence and distinctive culture. The institute is dedicated to fostering a congenial work environment, echoing Emma Watson's perspective on gender as a spectrum rather than a dichotomy. In alignment with this philosophy, the institute has established the Girls Grievance Cell, aiming to address various concerns specific to female students on campus.

The primary objectives of the Girls Grievance Cell encompass:

- **Establishing and maintaining a secure environment.**
- **Fostering an atmosphere that advocates equality and gender justice.**
- **Providing appropriate psychological, emotional, and physical support through counseling, security measures, and other forms of assistance.**
- **Emphasizing the significance of health and hygiene.**
- **Conducting awareness programs to underscore women's rights.**

The various activities conducted for the promotion of gender equity during 2022-2023 are as follows:

- **Film Festival from 05/09/22 - 08/09/22**
- **Dheera on 22/09/22**
- **Workshop on "Act for VAW" on 25/11/22**
- **Campaign on Health and Menstrual Hygiene Management on 04/02/23**
- **Health Checkup Drive (10/03/23**
- **Workshop on Change Management on 13/03/23**
- **Poetry Competition on 13/03/23**
- **Sports Fest for Women on 21/03/23**
- **Workshop on Gender Sensitization 2.0 on 01/04/23**

Web Link : https://web.mitsgwalior.in/grievance-cell

File Description	Documents
Upload any additional information	[View File](#)
Paste link for additional Information	[https://web.mitsgwalior.in/grievance-cell](#)

7.1.2 - The Institution has facilities for alternate sources of energy and energy conservation: Solar energy Biogas plant Wheeling to the Grid Sensor-based energy conservation Use of LED bulbs/ power-efficient equipment	**A. Any 4 or All of the above**

File Description	Documents
Geotagged Photographs	[View File](#)
Any other relevant information	[View File](#)

7.1.3 - Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words)

Response:

- **Solid waste management- Two-bin system has been implemented in the institute to collect the biodegradable and non-biodegradable waste separately. The biodegradable waste generated are dumped into compost plant and the non-biodegradable waste is sold to the agency for recycling.**

- **Liquid waste management- The institute has established two Sewage Treatment Plants (STP) which has the capacity of 1.5 KLD for the disposal of liquid effluent. After the STP process, the treated water is used for the irrigation of agricultural field, grounds, parks etc in the campus.**

- **E-waste management- E-waste from college is collected and under the process of safe disposal through there cyclers who are registered by the Central Pollution Control Board of Govt of India.**

- **Hazardous chemicals and radioactive waste management- Chemicals used in the laboratory are dilute acids only. Otherwise, the chemicals are safe and not hazardous.**

- **Waste recycling system- The institute has adopted an effective recycling system where the biodegradable solid wastes are collected from the campus and dumped in the compost unit to produce organic fertilizers. The fertilizer thus produced is used for the enhancement of soil nutrition. Besides the Institute also educates concern in the campus about the significance of the waste recycling system.**

File Description	Documents
Relevant documents like agreements/MoUs with Government and other approved agencies	View File
Geotagged photographs of the facilities	View File
Any other relevant information	View File

7.1.4 - Water conservation facilities available | **A. Any 4 or all of the above**

in the Institution: Rain water harvesting Bore well /Open well recharge Construction of tanks and bunds Waste water recycling Maintenance of water bodies and distribution system in the campus

File Description	Documents
Geotagged photographs / videos of the facilities	View File
Any other relevant information	View File

7.1.5 - Green campus initiatives include

7.1.5.1 - The institutional initiatives for greening the campus are as follows: 1. Restricted entry of automobiles 2. Use of bicycles/ Battery-powered vehicles 3. Pedestrian-friendly pathways 4. Ban on use of plastic 5. Landscaping	**A. Any 4 or All of the above**

File Description	Documents
Geotagged photos / videos of the facilities	View File
Various policy documents / decisions circulated for implementation	View File
Any other relevant documents	View File

7.1.6 - Quality audits on environment and energy undertaken by the institution

7.1.6.1 - The institution's initiatives to preserve and improve the environment and harness energy are confirmed through the following: 1. Green audit 2. Energy audit 3. Environment audit 4. Clean and green campus recognitions/awards 5. Beyond the campus environmental	**A. Any 4 or all of the above**

promotional activities	

File Description	Documents
Reports on environment and energy audits submitted by the auditing agency	View File
Certification by the auditing agency	View File
Certificates of the awards received	View File
Any other relevant information	View File

7.1.7 - The Institution has a disabled-friendly and barrier-free environment: Ramps/lifts for easy access to classrooms and centres Disabled-friendly washrooms Signage including tactile path lights, display boards and signposts Assistive technology and facilities for persons with disabilities: accessible website, screen-reading software, mechanized equipment, etc. Provision for enquiry and information: Human assistance, reader, scribe, soft copies of reading materials, screen reading, etc.	A. Any 4 or all of the above

File Description	Documents
Geotagged photographs / videos of facilities	View File
Policy documents and brochures on the support to be provided	View File
Details of the software procured for providing assistance	View File
Any other relevant information	View File

7.1.8 - Describe the Institutional efforts/initiatives in providing an inclusive environment i.e. tolerance and harmony towards cultural, regional, linguistic, communal, socio-economic and other diversities (within a maximum of 200 words).

The institute has made several efforts to create an inclusive atmosphere that values harmony and tolerance towards linguistic, cultural, regional, socioeconomic, and other diversity. The following officials, including various grievance redressal cells,

have been given duties by the institute to maintain an inclusive workplace where everyone is treated equally regardless of their race or cultural background. To promote tolerance and concord among students, teachers, staff, and other stakeholders, the following officials frequently organize and celebrate numerous speeches, National and International Days, Events, Festivals, and cultural activities.

1. Dean Academics

2. Dean Student Welfare

3. Registrar

4. Head of the Departments /Coordinators

5. Professor in charge of the celebration of National/International commemorative days, events/festivals

6. NSS Officer & Departmental NSS Coordinators

7. Student Development Cell

8. Equity Coordinator

9. Cultural Coordinator

10. Coordinator Ek Bharat Shreshtha Bharat Programme

11. Gender Sensitization Committee

12. Sports Officer

13. Club Faculty Coordinators

14. Class coordinators

The institute enforces a comprehensive code of conduct for faculty, staff, and students, promoting inclusivity across diverse backgrounds. Mandatory courses foster understanding, while a plethora of events, celebrations, and activities encourage tolerance, harmony, and holistic development.

More information on administrative duties is at https://web.mitsg walior.in/administration/administrative-responsibilities

File Description	Documents
Supporting documents on the information provided (as reflected in the administrative and academic activities of the Institution)	[View File](#)

7.1.9 - Sensitization of students and employees of the institution to constitutional obligations: values, rights, duties and responsibilities of citizens:

- **The Institute prioritizes comprehensive orientation with tailored Induction Programs for both faculty and students in adherence to AICTE guidelines.**
- **Annual celebrations of Independence Day and Republic Day underscore national pride through flag hoisting, parades, cultural events, and patriotic speeches. The Director's address during Republic Day is a highlight, fostering a sense of patriotism. Various activities organized by students and faculty under NSS, NCC, and clubs aim to sensitize the campus community to constitutional obligations and civic responsibilities.**
- **The Department of Humanities enhances academic rigor with the "Indian Constitution and Traditional Knowledge" course, offering theoretical insights through classes, assignments, and Moodle quizzes. These initiatives collectively contribute to a vibrant academic environment, emphasizing cultural traditions, values, and a commitment to instilling constitutional awareness among students and faculty, promoting holistic development in the institution.**
- **The Institute has launched a Massive Open Online Course (MOOC) on Indian Constitution and traditional Knowledge, aiming to instill constitutional awareness, values, rights, duties, and responsibilities among its stakeholders. Access the course athttps://web.mitsgwalior.in/academics/quality-initiatives/mits-moocs?view=article&id=773&catid=2.**

File Description	Documents
Details of activities that inculcate values necessary to transform students into responsible citizens	[View File](#)
Any other relevant information	[View File](#)

7.1.10 - The institution has a prescribed code of conduct for students, teachers,	**A. All of the above**

administrators and other staff and conducts periodic sensitization programmes in this regard: The Code of Conduct is displayed on the website There is a committee to monitor adherence to the Code of Conduct Institution organizes professional ethics programmes for students, teachers, administrators and other staff Annual awareness programmes on the Code of Conduct are organized

File Description	Documents
Code of Ethics - policy document	View File
Details of the monitoring committee composition and minutes of the committee meeting, number of programmes organized, reports on the various programmes, etc. in support of the claims	View File
Any other relevant information	View File

7.1.11 - Institution celebrates / organizes national and international commemorative days, events and festivals

The Institute actively engages in commemorating an extensive array of national and international observances, events, and festivals to foster cultural understanding, community involvement, and patriotic spirit. Faculty Coordinators play a crucial role in organizing celebrations for significant days such as Global Iodine Deficiency Day, International Science Week Webinar, International Tolerance Day, Human Rights Day, National Energy Conservation Day, National Cleanliness Day, and more.

Beyond these special days, the Institute promotes the celebration of festivals such as Ganpati Utsav, Garva, Dandiya, fostering inclusivity and vibrancy on campus. Independence Day and Republic Day are observed with flag-hoisting ceremonies, symbolizing the nation's sovereignty. Founder's Day on November 14th serves as a reflection on the Institute's history, marked by speeches, special events, and commemorative ceremonies.

Additionally, the Institute takes an active role in celebrating various national and international days, including Gandhi Jayanti, International Week for Science, National Youth Day,

International Human Rights Day, International Yoga Day, and Voters Day. These celebrations feature seminars, expert talks, and engaging activities, contributing significantly to the holistic development of students.

For detailed information on these activities and events, interested individuals can refer to the following weblink.

https://web.mitsgwalior.in/life-at-mits/student-activities/societies-clubs

https://web.mitsgwalior.in/life-at-mits/student-activities/commemorative-days

File Description	Documents
Annual report of the celebrations and commemorative events for during the year	View File
Geotagged photographs of some of the events	View File
Any other relevant information	View File

7.2 - Best Practices

7.2.1 - Provide the weblink on the Institutional website regarding the Best practices as per the prescribed format of NAAC

BEST PRACTICE -1

Title: Establishment of MITS-MOODLE for Digital Teaching-Learning

To implement a Modular Object-oriented Dynamic Learning Environment (MOODLE) as a robust Learning Management System (LMS), offering a student-centric 'any-time, any-where' learning experience. The goals include providing accurate content to digital-savvy students, supporting various academic activities, accommodating diverse learning styles, and aiding faculty in consolidating courses digitally. Launched on August 15, 2017, MITS-MOODLE facilitates interactive teaching, learning, and evaluation. The initiative addresses challenges like reliance on non-authentic materials, the need for easy access to academic content, and time wastage in content searches. The practice involves MOODLE coordinators promoting faculty integration, course page creation, attendance marking, COs and syllabus entry,

online quizzes, assignments, and feedback collection. Despite initial challenges, MITS-MOODLE is now integral to teaching and learning, showcasing a successful shift to digital education.

BEST PRACTICE-02

Title: Integrating Online Courses: MITS-NPTEL Model

Foster self-learning, instill lifelong learning skills, facilitate credit transfer, enable flexible and paced learning, connect with premier institutes, and promote choice and flexibility. The initiative addresses the paradigm shift in education towards a learner-centric approach. MITS, being autonomous, developed a curricular model allowing self-learning through NPTEL. The NPTEL platform, known for a plethora of courses and credible proctored exams, was chosen. The Academic Council approved the proposal in 2017, and MITS-NPTEL secured impressive 25th and 6th ranks in 2022 and 2023 sessions among 5500+ local chapters of the country, showcasing the success of the integrated online courses model.

File Description	Documents
Best practices in the Institutional website	https://web.mitsgwalior.in/iqac-mn/best-practices
Any other relevant information	https://web.mitsgwalior.in/images/EEIOT/Data%20NAAC/Best%20Practices.pdf

7.3 - Institutional Distinctiveness

7.3.1 - Highlight the performance of the institution in an area distinct to its priority and thrust (within a maximum of 200 words)

NEC was introduced at MITS, Gwalior for holistic education using activity-based learning.Unique and distinctive feature of the curriculum.

Initiation and Planning:

The Academic Development Cell formulated an action plan in March 2021.

Proposal for NEC Implementation:

Proposal to introduce NEC for UG students admitted from 2020-21 onwards.30-hour duration per semester, mandatory for III to VI semester students.01 credit per semester, totaling 04 credits.

Approval and Credit Provision:

Proposals approved by the Academic Council on June 28, 2021.NEC courses credited under the regular curriculum.Approved courses cover a wide range: NSS, NCC, Languages, Literature, Music, Dance, Arts, Theatre, Culinary Arts, Public Speaking, Vedic Mathematics, Economics, Sports, Meditation, Yoga, Ayurveda, etc.

Some modules are designed in two/four phases.

Except for NCC and NSS, a varied sessions, including online classes, seminars, activities, quizzes, and assignments.

Monitoring and Review:

Regular monitoring of the registration process, student feedback, and evaluation mechanisms.Day-to-day monitoring by the Dean of Student Welfare.

Status Review:

In the IQAC meeting on December 30, 2022, the status of NEC implementation was reviewed in item 6. The listof proposed NEC courses is also reviewed in the IQAC meeting in Item 7. In the IQAC meeting held on 30.06.2023, the registration detail for Jan-June 2023 was reviewed and the department-wise summary was reviewed in item 8

Session

Number of student Registered

Number of Students Given Feedback

% of Students

July-Nov 22

2546

1458

57.27

Jan-June 23

2523

1379

54.6%

File Description	Documents
Appropriate link in the institutional website	https://web.mitsgwalior.in/academics/nep-2020-implementation/novel-engaging-courses-nec
Any other relevant information	View File

7.3.2 - Plan of action for the next academic year

- To become a deemed to be university.
- NBA Accreditation of all eligible undergraduate programs.
- Developed Centre of excellence in various departments
- NABL Accreditation of Laboratories.
- Branding & offering MITS-MOOCs to other Institutes
- Development of Virtual Reality Labs
- Completion of ongoing infrastructure work (state-of-the-art labs & academic block)
- Facility for upskilling of working professionals/ corporate training programs
- Launching an 'MITS-Industry-Alumni Cell'
- Strengthening collaboration with foreign universities
- Building collaborations with research organizations/ prominent institutions for external mentorship
- Establishment of a recognized Calibration Centre
- Development of Business Development Centre
- Establishment of a Business Incubation Centre for incubating start-ups
- Launching certificate courses/programs in collaboration with the industry
- Strengthening industry collaboration for internship/ placement and joint research