Yearly Status Report - 2019-2020

Part A	
Data of the Institution	
1. Name of the Institution	**MAHARAJA SURAJMAL INSTITUTE OF TECHNOLOGY**
Name of the head of the Institution	**Prof. A.K.Singh**
Designation	**Director**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**011255528117**
Mobile no.	**9871408791**
Registered Email	**director@msit.in**
Alternate Email	**prof.aksingh@msit.in**
Address	**C-4 Janakpuri**
City/Town	**NEW DELHI**
State/UT	**Delhi**
Pincode	**110058**

2. Institutional Status

Affiliated / Constituent	**Affiliated**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**Self financed**
Name of the IQAC co-ordinator/Director	**Koyel Datta Gupta**
Phone no/Alternate Phone no.	**01125528117**
Mobile no.	**9999061790**
Registered Email	**iqac@msit.in**
Alternate Email	**koyel.dg@msit.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	http://msit.in/media/2019/11/30/aqar2018-19naacportal.pdf

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	http://www.msit.in/notices

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.11**	**2016**	**05-Nov-2016**	**04-Nov-2021**

6. Date of Establishment of IQAC

6. Date of Establishment of IQAC	**03-Aug-2011**

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture		
Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
ISO Certification	**21-Aug-2020** **1**	**2500**

8. Provide the list of funds by Central/ State Government- UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Dr. Naveen Dahiya	MODROBS	AICTE	2020 365	1043000
Dr. Swati Chaudhary	Teachers Associateship For Research Excellence (TARE)	DSTSERB under TARE scheme	2019 1095	1830000
		View File		

9. Whether composition of IQAC as per latest NAAC guidelines:	Yes
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	5
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	Yes
Upload the minutes of meeting and action taken report	View File
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	No

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

IQAC is very actively involved with the holistic growth of the students. A large number of activities are organised throughout the academic session in coordination with various departments and also collectively as a whole for the students of MSIT. A list of activities is as follows: • International Conference on Artificial Intelligence and Applications was held on February 67, 2020. • 7th National Conference on Advances in Metrology (AdMet2021) to be organized on March 56, 2021 • Annual Academic Audit ISO Surveillance Audit • More Faculty Development Programs, workshops and seminars were organised for ensuring quality in higher education and creating awareness to bridge the gap between academia and industry Organised various extension activities for students.

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

Plan of Action	Achivements/Outcomes
Hosting National Conference	Organizing 7th National Conference on Advances in Metrology (AdMet-2021) on March 5-6, 2021, in collaboration with Council of Scientific & Industrial Research-National Physical Laboratory (CSIR-NPL), Metrology Society of India (MSI) and National Accreditation Board for Testing and Calibration Laboratories (NABL)
Enhancement of Industry Academia interaction under industry interaction cell	Continuing process
To increase number of standard books in the library for the benefits of Students and faculty	New books and Journals are added
To Participate in ranking/Accreditation under NIRF	Continuing process
Academic Calendar	The Academic Calendar for the session 201920 was effectively followed
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14. Whether AQAR was placed before statutory body ?	Yes

Name of Statutory Body	Meeting Date
Governing Body	22-Dec-2020

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	Yes
Date of Visit	15-Sep-2016
16. Whether institutional data submitted to AISHE:	Yes
Year of Submission	2020
Date of Submission	20-Mar-2020
17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules	The institution is steadily moving from

| currently operational (maximum 500 words) | the traditional to automated Management Information Systems (MIS). The following systems are fully functional in the Institute from last few years. 1. Biometric Attendance System for Staff 2. Library is fully automated and uses the software WebOPack 3. Institutional email system 4. LMS (Moodle) 5. CCTV and Security Systems In MSIT, we have a total staff of around 200 people and we are using Biometric machine to keep attendance record of all the staff on daily basis. For each and every staff member we have assigned a unique User ID number (contains 9 numeric digits) and to easily identification of every department has different User IDs (initial 4 digits) like as 1010 for CSE Department, 1020 for IT department and same for all others. So from technical point of view we are currently using Biometric machine designed by eSSL company ltd. In which we are using two different modes of punching attendance either by face scanning or by fingerprint scanning. It means staff members can register their attendance by either methods (face or fingerprint). To calculate total duty hours machine automatically take count of the hours between first punch and last punch registered on machine on each and every respective day. We can also fetch the old data as and when required because once the data is downloaded it is stored permanently in the database of the software. For accessing the attendance records Biometric machine is connected with System through LAN (Local Area Network) and also assigned a different IP address to machine. The system connected with Biometric machine has software for the same. Library BookBank is fully computerized. All the library operations like Accessioning Cataloguing of Books/CDs/Periodicals/Journals/Magazines, Circulation (Issue/Return), Reports etc. are fully computerized. The WebOPAC facility is also available wherein the Library Patrons can search reserve the library Books/CDs etc. online. Library Automation offers many opportunities to improve service for library patrons. Among other benefits, it makes materials easier for patrons to Locate |

as well as allowing staff to better serve patrons by facilitating a multitude of staff tasks such as acquisitions, cataloguing, circulation and reference etc. Apart from all these the students are encouraged to develop apps, websites and software as per the requirements. The social media profile of the institute is also actively managed by the team of students. The latest news, updates and information is provided to various stakeholders through facebook, website, and other social media platforms.

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Planning and Implementation

1.1.1 – Institution has the mechanism for well planned curriculum delivery and documentation. Explain in 500 words

The Institute adopts the curriculum overview provided by the Guru Gobind Singh Indraprastha University. We impart quality education by focusing on optimal utilization of potential resources, institutional goals and concern towards the students. The institution has developed a structured and effective implementation of the university curriculum. The various ways through which effective execution of the curriculum is ensured: • Meeting: HOD's Meetings are held once in 15 days to ensure to provide effective quality education to students. Director conducts meeting with all HODs to ensure uniform procedure is followed throughout the campus. • Academic Calendar: Academic Calendar is prepared as per the Guru Gobind Singh Indraprastha University academic schedule and the requirements at the department level are formed. • Each department sets their own Vision and Mission which match with the Institutional Vision and Mission. Program Educational Objectives (PEO) and Program Outcomes (PO) are developed for each program and Course Objectives (CO) and course outcomes are defined for each course (theory and lab). • Lesson Plan: A Lesson plan includes course outcomes, course objectives, content topics, number of lectures required to complete a specific topic, reference books and the expected outcomes from the students by learning through the topics prepared by respective faculty members at the beginning of each semester. It gives an insight how the lecture class will be handled throughout the semester meeting the Vision and Mission of the Concerned Department. Due to the pandemic in 2020, MSIT started delivering online lectures. In this regard, MSIT began using Microsoft Teams professional environment for online teaching, learning process. It is a persistent chat-based collaboration platform complete with document sharing, online meetings, and many more extremely useful features for communications with students as well as faculty members. Various features of Microsoft teams are: • Teams and channels. Teams are made up of channels, which are conversation boards between teammates. • Conversations within channels and teams. All team members can view and add to different conversations in the General channel and can use an @ function to invite other members to different conversations. • A chat function. The basic chat function is commonly found within most collaboration apps and can take place between teams, groups, and individuals. • Document storage in SharePoint. Every team who uses Microsoft Teams will have a site in SharePoint Online, which will contain a default document library folder in which students can submit their assignments and access the class notes provided by faculty

members. • Online meetings. This feature can host up to 10,000 users. Online meetings can include anyone outside or inside the organization. These features enabled us to continue the teaching learning procedure in a seamless manner.

1.1.2 – Certificate/ Diploma Courses introduced during the academic year					
Certificate	Diploma Courses	Dates of Introduction	Duration	Focus on employ ability/entreprene urship	Skill Development
NA	**NA**	**Nil**	**Nil**	**Nil**	**Nil**

1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the academic year		
Programme/Course	Programme Specialization	Dates of Introduction
Nill	**NA**	**Nill**
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective course system implemented at the affiliated Colleges (if applicable) during the academic year.		
Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nill	**NA**	**Nill**

1.2.3 – Students enrolled in Certificate/ Diploma Courses introduced during the year		
	Certificate	Diploma Course
Number of Students	**Nil**	**Nil**

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year		
Value Added Courses	Date of Introduction	Number of Students Enrolled
The Power of Oral Communication	**25/09/2020**	**100**
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1.3.2 – Field Projects / Internships under taken during the year		
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	**Google Summer of Code program Designed design-reach-kit Developed App for Australian Government**	**2**
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.	
Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

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

Feedback Obtained

Collection of Feedback from Students, Parents and Alumni: The Institute collects the feedback on curriculum aspects and courses from different stakeholders namely, Students, Parents and Alumni. The Institution follows the "Teaching and learning process" as per the ISO 9001: 2005 standards in order to ensure and analyze the academic excellence at student and faculty levels. The college maintains an Internal Quality Assurance Cell as a quality consistence and quality enhancement measure. In supervision of IQAC several other committees like Anti-Ragging and internal complaint Committee, Student Grievances Committee, to reinforce the curriculum by incorporating updated information and diurnal social issues. Students are invited, by means of Moodle (Moodle – Open- Source Learning Platform) link, to complete a brief online feedback form on an anonymous basis, twice in a semester. First feedback is obtained in the middle of the semester and second feedback is filled towards the end of semester. The student feedback exercise is entirely confidential and anonymous. The analysis of the feedback obtained is made by the respective Head of Departments from the following: student performance, faculty performance in every semester, utilization of infrastructure and requirements for quality improvement. The Head of Department conducts meeting with faculty, if necessary, and discusses various points as per the received feedback for necessary action to be taken so as to enhance class room teaching and in conducting laboratory classes. The faculty also provides his feedback to the Head of department for quality enhancement during the meeting. The Institute also collects the feedback from the students of final year (8th semester) on the Curriculum which is prescribed by the GGSIPU University, infrastructure, lab facilities, ambience, sports facility, canteen etc and any other additional points physically. The survey is further analyzed and a report for the same is made by each department. The issues are presented in the IQAC meeting and communicated to the Director and Management for the necessary and required action. Feedback from various industrial setups/organizations is obtained from the students. Further, the college conducts annual Alumni Meet, in which suggestions and feedback is received from Alumni students. The provided feedback data is presented to the Head of the Institute for necessary implementation. Alumni surveys are conducted during alumni interaction at the alumni association meeting held every year.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	CSE, IT, ECE & EEE	660	10000	660
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2.2 – Catering to Student Diversity

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

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG	Number of fulltime teachers available in the institution teaching only PG	Number of teachers teaching both UG and PG courses

			courses	courses	
2019	2514	Nill	133	Nill	133

2.3 – Teaching - Learning Process

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

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
133	133	2	18	18	3
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2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

MSIT is one of the top engineering colleges in Delhi. Delhi being a cosmopolitan city there is diversity in the social and financial background of the students it is our policy to entertain the hopes and aspirations of students from all over the country – irrespective of their social and financial background. Many of our students from rural areas lack proper academic background and financial back-up. Mentoring of students thus, is an essential feature to impart unbiased service to all our students having varied background. Student-mentorship has the following aims: • To improve teacher-student relationship • To improve students' academic performance and attendance • To motivate students to explore their true potential • To identify and motivate the slow learners and encourage the advanced learners • To render fair service to all students The IQAC has taken the initiative of implementing the mentoring of students. Each group of 20 students is assigned a teacher-mentor who would perform mentoring duties. A Mentoring Format with Guidelines is prepared by the IQAC to ensure uniformity. • Mentors maintain and update records which contain particulars and performance of students (class tests, monthly attendance records, academic and co-curricular certificates etc.) • Mentors are required to meet their respective group at least once in a month and offer necessary guidance and ounseling to individuals. • In isolated cases parents are called for Counseling/special meetings with the Director/HOD at the suggestion of the Mentor. • If a student is identified as having weakness in particular subjects, the Mentor should notify the concerned teachers.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
2514	133	1:19

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
126	133	Nill	15	54

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

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2020	PES Chapter IEE E (Chapter In-charge Dr. Jyoti Jain)	Associate Professor	IEEE Outstanding Engineer Award.
2020	Dr. Yogendra Arya	Assistant Professor	Ranked in 2 researchers in the world by Stanford

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2.5 – Evaluation Process and Reforms

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

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
BTech	Nill	Nill	Nill	Nill

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2.5.2 – Reforms initiated on Continuous Internal Evaluation(CIE) system at the institutional level (250 words)

Centralized Continuous Internal Evaluation System The institution adopts Centralized Continuous Internal Evaluation (CIE) System to assess all aspects of a student's development on a continuous basis throughout the year to ensure overall growth of students in every sphere of life. The following steps are implemented to ensure smooth execution of CIE: • Awareness on Evaluation Process: Students are made aware of the evaluation process, all amendments in existing process and schedules through their class proctor/teacher. Result Analysis Review Meeting: Result Analysis is done by the subject teachers after every CIA Test. Pass percentage of each course is calculated by dividing the total number of students appeared and passed in each course. The performance of the students is monitored by the HOD/Director and the necessary feedback is given to the concerned faculty members. Parents after are briefed about their wards' performance in PTM. • Remedial Classes are conducted for the slow learners, absentees and the students who participate in Sports, NSS activities and Placement Interviews. • External examinations of three hours duration are conducted at the end of every semester for all the theory papers and practical papers. Students should satisfy the eligibility criteria of 75 attendance in each semester to appear for University Examination.

2.5.3 – Academic calendar prepared and adhered for conduct of Examination and other related matters (250 words)

The Exam Cell was established by the MSIT keeping in view the various activities of examinations. The important role of Exam Cell is to provide the students with all types of help like informing them the academic calendar, examination schedules during the entire programme. Moreover, the Exam Cell is also responsible to conduct all the Mid-Term, Practical and End-Term Theory Examinations, Common Entrance Tests every year in a smooth and transparent manner. The activities involved with the Exam Cell is display of all examination notices, date sheets, allotted examination centers, issuing admit cards, semester marks sheets, degrees, provisional degrees, consolidated marks sheets, course completion certificates, migration certificates, transcripts etc. Also, processing students application to the university for duplicate marks sheets, degrees, correction in results, corrections in marks sheets, degrees, re-checking forms, getting the examination forms or registration charts filled up by all the students, submission of re-appear fees in the university, preparation of results of students and keeping records of documents issued to the students. For B.Tech. Programme, an Examination Coordination Committee is constituted by the University to appoint subject coordinators for setting the question papers centrally for all the colleges to maintain the quality of education. The Exam Cell is responsible to receive question papers from other colleges and submit question papers for other colleges, preparation

of seating plans, preparation of practical date sheet, preparation and circulation of duty chart, keeping records of students' attendance during examinations, Degree Issue Register, Marks Sheet Distribution Lists, analyzing student performance data every year. In addition in current covid-19 scenario the online examinations are being conducted for internal, practical and external examinations for which all related guidelines, procedures are circulated to the entire faculty and the students.

2.6 – Student Performance and Learning Outcomes

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

http://msit.in/media/2021/03/22/pos.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
27	BTech	CSE	199	199	100
31	BTech	IT	128	125	97.6
28	BTech	ECE	191	187	97.9
49	BTech	EEE	59	58	98.3
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2.7 – Student Satisfaction Survey

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

http://msit.in/media/2021/02/15/college-feedback-16-20.pdf

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Resource Mobilization for Research

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

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Any Other (Specify)	730	AICTE	10.43	8.34
Any Other (Specify)	1095	DST-SERB under TARE scheme	18.3	5
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3.2 – Innovation Ecosystem

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

Title of workshop/seminar	Name of the Dept.	Date
Privacy and Plagiarism	Innovation Cell, MSIT	25/07/2020

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

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category

Most Mabinstream Hack	Siddharth Sen	Harvard University	18/10/2019	HackHarvard Hackathon
Best Start-up Idea	Pratish Pushparaj	Delhi Technical university Google	06/09/2019	Start-up weekend program
GirlScript Hackathon	Sakshi Munjal	Microsoft	20/10/2019	GirlScript Hackathon

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3.2.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
01	Incubation Cell	MSIT	In Process	Agriculture,Rural Development, Education, Health	30/10/2019

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3.3 – Research Publications and Awards

3.3.1 – Incentive to the teachers who receive recognition/awards

State	National	International
		1

3.3.2 – Ph. Ds awarded during the year (applicable for PG College, Research Center)

Name of the Department	Number of PhD's Awarded
NA	Nill

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

Type	Department	Number of Publication	Average Impact Factor (if any)
National	IT	1	Nill

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

Department	Number of Publication
App. Sc. -1st and 2nd Shift	2
EEE	1
ECE-1st and 2nd Shift	39
IT-1st and 2nd Shift	8
CSE -1st and 2nd Shift	32

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3.3.5 – Bibliometrics of the publications during the last Academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the	Name of	Title of journal	Year of	Citation Index	Institutional	Number of

Paper	Author		publication		affiliation as mentioned in the publication	citations excluding self citation
Impact of hydrogen aqua elect rolyzer- fuel cell units on automatic generation control of power systems with a new optimal fuzzy TIDF- II controller	Dr. Yogendra Arya	Renewable Energy (Elsevier)	2019	15	Maharaja Surajmal Institute of Technology	14
A novel quality prediction model for component- based software system using ACO-NM optimized extreme learning machine	Dr. Kavita Sheoron	Cognitive Neurodynam ic	2020	4.007	Maharaja Surajmal Institute of Technology	Nill
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3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Pyroelec tric energy conversion harvesting using Ba0. 85Sr0.15Zr 0.1Ti0.9O3 ceramics and its cement based composites	Dr. Puneet Azad	Journal of Intelli gent Material Systems and Structures	2019	104	Nill	Maharaja Surajmal Institute of Technology
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3.3.7 – Faculty participation in Seminars/Conferences and Symposia during the year :

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	16	20	32	5
Presented papers	29	1	Nill	Nill
Resource persons	5	Nill	Nill	Nill

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3.4 – Extension Activities

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

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Meditation Session on Sports Day	NSS Cell and Prakriti MSIT/ Sahaj Yoga	4	500

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3.4.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Open-Source Contributions	Received Linux Scholarship to attend KubeCon and CloudNative Con in Europe	The linux Foundation	1

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3.4.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Swachh Bharat	NSS Cell and Prakriti MSIT/ Sahaj Yoga	Oath Ceremony for Swacchhta Bharat Pakhwada	4	2000
Gender Issue	NSS Cell and Prakriti MSIT	Sexual Assault Awareness Campaign	4	2000

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3.5 – Collaborations

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

Nature of activity	Participant	Source of financial support	Duration
Teachers	Dr. Swati	DST-SERB under	1095

Associateship For Research Excellence (TARE)	Chaudhary	TARE scheme	
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3.5.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Ph.D. Programme	Research Work	Dublin Business School	01/09/2019	31/12/2020	Ms. Niharika Dangi
Ph.D. Programme	Research Work	Delhi Technical University	19/07/2019	31/12/2020	Ms. Upma Singh
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3.5.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
E Cell MAITREYI	22/01/2020	Promoting events and participation in events	15
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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

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

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
24	19.07

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
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4.2 – Library as a Learning Resource

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

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Alice for Windows (AFW) by Softlink	Fully	6.00.016	2006

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	56664	Nill	1497	820768	58161	820768

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

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
ALL	EGINEERING CURRICULUM	MOODLE	15/01/2020

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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	512	307	512	20	60	9	106	100	30
Added	1	0	1	0	0	0	0	0	0
Total	513	307	513	20	60	9	106	100	30

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

100 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Moodle	www.moodle.msit.in

4.4 – Maintenance of Campus Infrastructure

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

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
17.64	16.46	27.49	19.79

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

Institute makes budgetary provision under different heads for maintaining and utilizing the campus infrastructure facilities. Institute assigns enough funds towards maintenance and repairing. The allocated funds are utilized under the observation of various monitoring committees such as Purchase committee, Repair and maintenance committee, Sports Committee, Library committee, individual departments of the college. To maintain and upkeep the infrastructure Institute facilities and equipments, following activities are undertaken by college:- •

There is a Central stock register and departmental stock registers which records every item after physical verification. The records of stock register are audited annually. • Regular maintenance of Computer Laboratory equipments are done by Technical Assistant along with Laboratory attendant and they are headed by lab In-charges. • Overall development of campus is done by Infrastructure Committee of the college. • Regular cleaning of water tanks, proper garbage disposal, pest control, landscaping and maintenance of lawns is the responsibility of the Institute caretaker and associated cleaning staff. • College campus maintenance is monitored through regular inspection. • Upkeep all facilities and cleanliness of environment in men's and women's hostel is maintained through Hostel monitoring committee. • Outsourcing is done for maintenance and repairing of IT infrastructure such as computers, internet facilities including Wi-Fi and broadband. Updating of software is done by lab assistants. • Outsourcing is done for the maintenance of wooden, furniture, electrification, and plumbing. • Regular maintenance of the water cooler and water purifier is done by outsourcing agent. • The maintenance of the reading room and stock verification of library books is done regularly by library staff.

http://www.msit.in

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Institutional Scholarship for meritorious students	4	50000
Financial Support from Other Sources			
a) National	EWS	9	99630
b)International	Nill	Nill	Nill
View File			

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
The Power of Oral Communication	25/09/2020	100	BML Munjal University
Soft Skills at Workplace	29/09/2020	100	University of Notre Dame, USA
Phonetics for Effective Communication	19/11/2020	128	Central University of Rajasthan, Ajmer
Cracking Job Interviews	04/12/2020	100	Maharaja Agrasen College, University of Dehi
Mental Health Care	14/10/2019	100	NSS Cell and Prakriti MSIT
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year					
Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2020	NA	Nill	214	214	17
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
9	9	7

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
43	484	367	26	100	25
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2020	9	B.TECH	CSE	John Hopkins University, Indian Institute of Management, Visakhapatnam, NIT, Kurukshetra, JNU,New Delhi NMIMS, Mumbai , USC University of Southern California Sardar Vallabhai Institute of Technology, Surat University of Texas, Dallas, DTU	Master of Science in Engineering Management, Master of Business Administration, M.Tech

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

Items	Number of students selected/ qualifying
GATE	21

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

Activity	Level	Number of Participants
Avensis (Techfest)	Inter-College	2500
Genesis	Inter-College	2000
Annual Sports Day	Intra-College	1500

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5.3 – Student Participation and Activities

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

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2020	Silver medal in 4100m relay in Ignite'2020 , organised by IGDTU.	National	1	Nill	CSE	Maryada Sharma Milli Guleria of 3rd year
2020	3rd best Adjudicator in Vitark National Parliamentary Debate, by Deen Dayal Upadhya College.	National	Nill	1	CSE	Sarthak Yadav, of 2nd year

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

MSIT believes that holistic growth of students is possible only when we give student a platform to express themselves in their areas of interest other than academic front. We have several societies and SIGs run and managed by Student's coordinator and faculty members. Various Societies are namely: ? IEEE ? TechSoc ? Prakriti/ NSS ? Mutant ? Developer Student Club ABOUT IEEE The institute of electrical and electronic engineers is a global professional association of engineers from across the world. IEEE is the foremost authority when it comes to research and in any field of engineering. IEEE as a college society aims on helping student derive more out of their engineering. It provides a platform to

be exposed to advancements in technologies and cultivates a spirit of innovations in them. IEEE student branch carries out various programs within the college which entail technical project exhibitions, summer project internships and various other such programs. Special interest groups (SIGs) wherein students educate as well as learn from their peers are encouraged and carried out by IEEE student branch. Various seminar talks, workshops and webinars are also conducted by the student branch. IEEE MSIT believes in holistic development and hence supports and conducts cultural events and SIGs as well. IEEE MSIT consists of three chapters and one affinity group TechSoc, the technical society of MSIT was formed by the amalgamation of various technical clubs pre-existent in the college.This was done to channelize the scattered efforts and to provide a common platform which catered to the technical needs of the students. TechSoc serves its audience by organizing various events in the form of speaker sessions, technical seminars and hands-on workshops on subjects from various domains. PRAKRITI MSIT To emphasize and increase the consciousness and awareness towards the environment and ecosystem, a group of students of MSIT came together to form Prakriti- The humanitarian and environmental society of MSIT. Established on 3rd March 2010 and since then the club is constantly working to make the mass youth aware of the ecosystem. Being one of the oldest societies of MSIT, Prakriti has gained a lot of appreciation and fame, not only within the boundaries of the college but also on a global level. Through the various programs composed by Prakriti, the students of the college have been provided with the opportunities to develop problem-solving, decision making and leadership skills. Being a not for profit organization, Prakriti always works to involve mass participation in planning and implementing the projects. Prakriti also stands to support various NGOs (like Goonj) and rural and urban communities (like Lion's Club) that work towards the progress of the society. Developer Student Club Developer Student Club, Maharaja Surajmal Institute of Technology (DSC-MSIT) is a community of college students powered by Google. DSC MSIT helps students to grow with the latest technology trends and student opportunities. This community provides a peer-to-peer learning environment, while building solutions for community and local businesses. Solutions built by a developer student club are supported by Google Developer technologies.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

MSIT has recently registered its Alumni Association under Societies registration act with Registration No. S/ROS/DW(SW). Registration process of students of fifteen passout batches of MSIT has already begun through the recently launched Alumni portal. The association consists of faculty members from all departments including Dr. Puneet Azad (Convener), Ms. Sonika Malik, Ms. Jyoti Khurana, Ms. Sonia Goel, Ms. Shaily Malik, Mr. Ravi Choudhary, Ms. Saba Khanum, Ms. Gunjal Beniwal and six founder students Mr. Rishabh Mathur (ECE), Mr. Siddharatha Kukreti (CSE), Ms. Pragati Sharma, (CSE), Ms. Priya Sharma (ECE), Mr. Siddharth Sharma (ECE) and Mr. Rahul Rajpal (IT). The association started its operation with the conduct of its first session on "Carrier Guidance"on 5th, October, 2019. All the founder students presented their talks and guided the B.Tech students in choosing their career in various fields including Software, Management, Electronic design, Higher studies, PSUs etc. To continue the rhythm, Mr. M.V. Priyank, an Alumni (IT 2007-11 batch) was invited to deliver a session on "Journey into Sound Healing for Relaxation and Well Being" on 21.11.2019 for the faculty and students of MSIT. After transitioning from being IT Entrepreneur to Wellness Entrepreneur, Priyankis now on a mission to Educate and Empower people so that they can lead Healthy, Wealthy and Prosperous life. Priyank specializes in utilizing modern technology

integrating them with the energy science and using them for exploration, which makes people, understand as well as explore the knowledge with logical explanation. Prof. Rajesh Nair presenting his talk Mr. M.V.Priyank addressing all faculty members Further, to ignite the spark of Entrepreneurship, an engrossing talk on "Building an Entrepreneurship Ecosystem" was arranged for the students. Renowned Prof. Rajesh Nair, Director and Professor of Practice, Innovation and Entrepreneurship Centre, Asia School of Business | MIT Sloan and Visiting Scholar Massachusetts Institute of Technology (MIT) was invited to present the talk. The session was organized on 20th February 2020 in MSIT and attended by Sh. Kaptan Singh (President, SMES), Prof. Ashok Oberoi (Director Placements, SMES), Prof. K.P. Chaudhary (Director, MSIT), Prof. Poonam Bansal (Dy. Director, MSIT), Alumni Association members, faculty and a large number of students. He emphasized on realizing our power of imagination and use our creativity, technical skills and focus on learning and encouraged the audience of this generation to try out new crazy things in their lives. MSIT Alumni Association is committed to bring together the alumni community on a common platform to foster stronger relations between alumni and others connected with the Institute. Apart from serving as a base for information about the alumni, it initiates programs and organizes events important for students, alumni, their alma mater, and in the national interest.

5.4.2 – No. of enrolled Alumni:

4000

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

0

5.4.4 – Meetings/activities organized by Alumni Association :

The following activities are organized by MSIT Alumni Association 1. Seminar on "Career Guidance" on 5 Oct, 2019 by Rishabh Mathur (ECE 2011 batch), Siddhartha Sharma (ECE-2010 batch), Rahul Rajpal (IT-2016 batch), Pragati Sharma (CSE-2016 batch) 2. Seminar on "Journey into Sound Healing for Relaxation and Well Being" on Nov 02, 2019 by Mr. M.V. Priyank, an Alumni (IT 2007-11 batch) 3. Seminar on "Building an Entrepreneurship Ecosystem" on Feb 20, 2020 Prof. Rajesh Nair, Director and Professor of Practice, Innovation and Entrepreneurship Centre, Asia School of Business | MIT Sloan and Visiting Scholar Massachusetts Institute of Technology (MIT) 4. "Tech Sunday" on June 14, 2020 by Vaibhav Vashishtha (CSE 2006 batch)

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

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

MSIT have decentralized style of working. • For participative management, the Director, HODs, Faculty and student representatives form the core part of the IQAC team. • We have flexibility at departmental level also as class coordinator or faculty members can suggest and implement curriculum enrichment and enhancement. Faculty members prepare their subject notes and Lecture plan, which are upgraded every semester. Subject notes prepared by faculty are available at www.moodle.msit.in. Every department prepares a roadmap for the upcoming semester in terms of infrastructural and academic growth. Departmental budget is prepared by taking suggestions from Head of Department, Class Coordinator and faculty representative.

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

Partial

6.2 – Strategy Development and Deployment

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

Strategy Type	Details
Curriculum Development	? Maharaja Surajmal Institute of Technology is affiliated to Guru Gobind Singh Indraprastha University, New Delhi and follows the curriculum and syllabus prescribed by the University for all its courses. Affiliated Institutions are not allowed to design their own curriculum. Rather, after every 5 to 6 years, University revise their syllabus and Senior faculty members from our college have been a part of the curriculum development committee formulated by University and have contributed to curriculum development. For every semester subject coordinators are selected from affiliated Institutes. The curriculum and lesson plan of each subject is available in Moodle. The course content to be used respective faculty is also uploaded in Moodle and visible to concerned student.
Teaching and Learning	We follow a holistic approach for growth and development of students, our teaching and learning methodology includes brainstorming, presentations, quizzes, inquiry learning, hands on activities, case studies etc. We provide Computer Laboratories with latest configuration hardware and original licensed software. Wide access to internet facility in labs, browsing centres and library to inculcate online learning management resources. Campus is Wi-Fi enabled campus and provides facility for students to use internet as a resource in their studies.
Examination and Evaluation	As per University rules, there is one Midterm examination to be conducted in a semester by the institution and at the end of semester End Term Examination is conducted by University, which is a centralized process managed by University. ? We at MSIT follows disciplined strategy for evaluating our students, which includes. Continuous evaluation is done through class tests, assignments, viva and presentations.
Research and Development	Library of the Institute has subscription for various online research journals and books to provide latest resources for the faculty

	members. Almost all faculty members are provided with personal computer /library which helps them carry out their research work. The institute has Wi-Fi enabled internet facilities for the fast access to online resources. The institute motivates the faculty members to attend research-oriented seminars/workshops/conferences, etc., by providing special duty leave. The Institute encourages faculty members to pursue Ph.D programmes in reputed universities. The institute supports the researchers by providing high end computing facility with necessary software and with modern equipment. ? Institute recognizes and awards faculty publishing in reputed journals.
Library, ICT and Physical Infrastructure / Instrumentation	The library materials via Web- OPAC library has also subscribed for online databases that can be browsed from 9 AM to 6.30 PM. Each terminal is having internet facility. Library is having reprographic facility within the institute's campus. Library is having 1 server and 26 computers Detailed list of currently subscribed journals is also uploaded on library website (printed online). Besides this regular e-mail is being sent to faculty to upgrade them with the latest information of library. ? CD Collection: Library also maintains the CD's received along with the books. The users can get them issued.
Human Resource Management	? The Institute believes in motivating faculty and staff for best outcomes. Various orientation and enrichment programmes are regularly organized for both teaching and non-teaching staff members for upgrading their skills in the latest technology. Salary, pay-scale and increments are given to staff members as per Government norms which lead to employee satisfaction. The management contributes an amount equal to the employee share for EPF with Pension scheme and Group insurance. Institute grants Medical, Casual, On Duty and Special Leave to its faculty members. And Non Teaching gets Medical, Causal and Earned Leave as per the norms of University. It also provides Maternity Leave according to norms to its female members. MSIT provide Special Leave for pursuing higher studies, attending

	enrichment courses/seminars/conferences/workshops and exam duties. The faculty and staff members are entitled to avail summer and winter vacations as per guidelines of the University. The Institute has Biometric, CCTV facility for better human resource management.
Industry Interaction / Collaboration	The Institute has constituted Institute Industry Cell for better collaboration between Institute and industry. The cell arranges internship programmers for students. This provides a unique and rare opportunity provided to students to learn the theoretical concepts practically. The students are encouraged to visit top industries to provide them an insight on the working models and latest technologies used in corporate world. ? Faculty members are also sent for industrial visits to promote research on latest technologies.
Admission of Students	? MSIT is an affiliated College of Guru Gobind Singh Indraprastha University,. The admission is done through CET conducted by University and based on their online admission procedure students are admitted to Colleges based on their preferences and ranks. College is allowed to admit 10 students under Management seats, which is done on the basis of percentage in 12th examination and rank in CET Exam.

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

E-governace area	Details
Planning and Development	Implemented SMS system for dissemination of information including regular notice to all Stakeholders. Setting up website for providing information about basic information about every department, accreditation and certifications, policies adopted and events organized by college. ? Moodle (a course management system) is used to provide approved ourse contents to students
Administration	Notice display system for students and other stakeholder on website. Regular display of audited balance sheets on website. ? Automation software available in Library.
Finance and Accounts	Fully computerised office and accounts section. ? Maintenance the college accounts through Tally.

Student Admission and Support	Online admission is conducted by the affiliating university to Guru Gobind Singh Indraprastha University. Information related to admission, fees and other events are provided in the website. ? Digital records of student's are stored.
Examination	? Digital records of students' results are maintained.

6.3 – Faculty Empowerment Strategies

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

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2020	Dr. Jyoti Jain	Nill	IEEE	7326
2020	Dr. Sunil Gupta	REPSI-2020	Nill	12500
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6.3.2 – Number of professional development / administrative training programmes organized by the College for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Faculty Development: Planning and Management for Institutional Excellence	Nill	18/11/2019	22/11/2019	53	Nill
2020	Machine Learning with Python	Nill	02/03/2020	06/03/2020	84	2
2020	Data Analysis using Python	Nill	12/10/2020	16/12/2020	20	Nill
			No file uploaded.			

6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the	Number of teachers	From Date	To date	Duration

professional development programme	who attended			
NPTEL online certification on Medical Image Analysis	2	24/02/2020	20/03/2020	28

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
118	15	59	Nill

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
Term Insurance Scheme, Group Insurance Schemes, EPF, 10 Academic Leave per year. Maternity and paternity leave are provided. The institute sponsors the research publications and registrations to academic conferences, workshops. Institute organizes workshops, FDPs, seminars and conferences. Best faculty award has been initiated comprising hefty cash prize. Cash prizes are also given for publications in SCI indexed journals. Subsidized in-campus housing and subsidized meals are also provided in the hostel mess.	Term Insurance schemes and Group Insurance schemes, Earned Leave, EPF, Maternity leave and paternity leave are provided.	Students Insurance schemes, Book Bank facility, Gold medals and cash prizes are awarded to merit holders in sports and academics. Scholarships are also given. Industrial trips are organized and several workshops, training sessions are conducted for their overall improvement. In campus hostel facility with quality housing and meal is provided to students. Regular interaction with parents is done to ensure a coordinated effort for the welfare of the students.

6.4 – Financial Management and Resource Mobilization

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

In our Institute both the audits i.e. Internal as well as External/Statutory audit was carried out on monthly and yearly basis. The Internal audit is being done on monthly basis wherein each and every voucher, ledger, bank book, cash book, etc is checked in depth. In this audit the statutory dues and their challans is checked to see that all the statutory requirements are met on time. Monthly reconciliations of bank, cash and ledgers is being done under this audit. All the fee receipts are checked with the strength of the students. In this audit, a special separate audit was conducted in the month of December every year wherein all the stocks and fixed assets are checked and verified. The External/Statutory audit is being done on annual basis. This is basically a Balance Sheet audit wherein the basic vouching is checked on random basis and the main stress was on the Statutory Compliances. In this audit it is to be seen that all the accepted accounting standards are being followed and are to

be shown in the Balance Sheet. The auditors have to see that the Balance Sheet and Income Expenditure account gives a true and fair view of the accounts. The final Balance Sheet is signed by the Statutory auditors.

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

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
NA	0	NA

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6.4.3 – Total corpus fund generated

0

6.5 – Internal Quality Assurance System

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

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	ISO, GGSIPU	Yes	HOD/ Certified ISO Auditors of the Institute
Administrative	Yes	ISO NCT Govt. of India GGSIPU	Yes	Certified ISO Auditors of the Institute

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

• Regular Parent Teacher Meetings are held. • Parents are cordially invited for Orientation Programme of their wards on their first Day of College every year. • Parents are invited in Stakeholder's Meeting. • Parents are invited for Appreciation Ceremony of Meritorious Students on Annual Day

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

Seminars and workshops are organized. Mental Health awareness programmes are conducted. Sent for industrial visits.

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

• Planning and Preparation Re- Accreditation by NBA of ECE EEE • Encouraging Innovation Cell activities • Promoting Faculty Student Entrepreneurship • Promoting research work by awarding faculty for research projects, publishing in SCI indexed journals

6.5.5 – Internal Quality Assurance System Details

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

6.5.6 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants

| 2019 | Faculty Development: Planning and Management for Institutional Excellence | 18/11/2019 | 18/11/2019 | 22/11/2019 | 30 |

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

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

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Sexual Assault Awareness Campaign	14/04/2020	22/04/2020	3000	2000

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

Percentage of power requirement of the University met by the renewable energy sources
Solar thermal water heater

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	2
Provision for lift	Yes	2
Ramp/Rails	Yes	2
Braille Software/facilities	Yes	2

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2019	1	1	14/02/2019	1	Annual Blood Donation Camp	Importance of Blood Donation Camp	300
No file uploaded.							

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)

| NA | Nill | Nil |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
B.Tech curriculum (1st and 4th Year)	Nil	Nil	1200

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

- Participation in Swachh Bharat Abhiyan • Plastic Free Campus • No smoking Campus • Regular Plantation Drives • Use of Solar Panel as alternate source of energy • Rain water harvesting

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Title of the Best Practices- ISO 9001-2015 1. Objective of the Practice –The Context- ISO 9001-2015 is a quality management system which helps an organization to organize its processes, improve the efficiency of its processes and continually improve the processes. MSIT has adopted this international quality standard in order to demonstrate its ability to consistently provide educational services that meet customers' applicable statutory and regulatory requirements. The institute effectively implements this quality system which enhances customer satisfaction and implements various processes for continual improvement of the system. 2.The Practice – In ISO, every year two internal audits are conducted, one in each semester. These internal audits take care that all the processes are smoothly running in the institute and if there are certain issues regarding the smooth conduct of these processes the process owners are given time by the auditors to resolve the issues and a management review meeting is held after each internal audit to review the findings of the internal audits. Every year, one external audit known as surveillance audit is also conducted by the external agency providing the certification. 3. Evidence of Success – This quality system is perfectly implemented every year. All the records of internal audits and MOM's of management review meeting are maintained with Quality System Coordinator (QSC). 4. Problems Encountered and Resources Required – There is no major problem encountered in implementing the system. But the system requires lot of documentation which sometimes become tedious to maintain. As the ISO system covers the entire institute, the man power of the institute is the main resource which includes faculty, students, administration and top management. Title of the Best Practices –MS Teams 1. Objective of the Practice –The Context – The Institute affiliated to Guru Gobind Singh Indraprastha University provides technical education to thousands of students and it is essential for the Institute to cater the requirement of availability of learning material for every student. To ensure this a central space on the web is essential where students and staff can access a set of tools and resources anytime anywhere. MS Teams is a software that enables teachers to create and deliver effective online learning environments. This provides an opportunity to the students to access the resources directly those are most useful for them. 2. The Practice – MS Teams provides a place where one can easily create web pages with information about a particular course and provide links to word documents, slides, and other resources that the students will want to access. The faculty uploads the relevant course materials/ presentations/videos related to their upcoming lecture which gives the students an insight about the topics to be discussed in the lecture and assist them in learning the prerequisites essential for the concerned topic. The teachers provide online assignments and quizzes which can be accessed by the students and saves effort for everyone involved in terms of photocopying, distribution

etc. The feedback of each course is evaluated through this tool which makes it a complete teaching learning package. 3. Evidence of Success – The use of MS Teams encourages collaborative learning. This platform enables students and teachers to access the course materials everywhere. The teachers can use filters to categorize the availability of materials depending on the type of students. The use of MS Teams has enhanced the teaching learning procedure of the Institute which is evident from the rise in the academic interest of every students and improvement in their examination results. 4. Problems Encountered and Resources Required – a. Requirement of internet to access the learning portal. b. Requirement of dedicated personnel for overall effective maintenance of the course management system. Title of the Best Practices –Cultural and Technical society– Platform for Technical and personal Development Objective of the Practice –The Context – Maharaja Surajmal Institute of Technology promotes quality and artistic renewal of students, to experience cultural and participation in educational programs. These activities are an integral part of all round development of the students. Students from various institutes in and around Delhi participate to showcase their talents and skills besides, in this high-tech word every student wants to acquire knowledge in every field stay updated. Salient features of this society are: ? To create awareness about the latest updates ? To encourage those students who have shown excellence in academics ? Promoting public awareness of the long reaching effects of engineering ? Energizing the abilities ? Enhancing the personal of every individual ? To advance global prosperity The Practice – There are various technical and cultural societies wherein series of activities throughout the year are undertaken. The purpose is to generate interest and inculcate certain values and skills which students otherwise are unable to learn such as –leadership, team work, communication, organizing, creativity etc. Various socities are ? Technocratz ? IEEE and Chapters ? Mutant ? Prakriti ? Rotract Club These societies are managed by student representatives under the guidance of the faculty incharge. Apart from these societies annual event Tedx is gaining popularity as it welcomes world renowned personalities from global fields. On a regular basis, activities under these societies are conducted by the students. Annual techno cultural festival like Genesis and Techfest are organised yearly wherein the students from various colleges are participated. Evidence of Success – We have a substantial body of evidence showing the correlation between higher engagement and higher performance. The positive impact of these activities is reflected in good placement year after year. The recruiters have given positive feedback about these activities. As a result of these activities and students participation in them, the learning capabilities of students have gone up which is also reflected in examination results, their overall satisfaction and selection in different organizations. Problems Encountered and Resources Required – a) Less time available with students for participation. b) Most of the students commute daily from far off places, on account of which their involvement in these activities is on lower side. c) Sometimes the need for a trained instructor becomes the constraint to effectively carry out these activities

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

http://msit.in/media/2021/03/22/best-practices-converted.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

This AICTE approved Institute under GGSIP University is ideally located in the Institutional area of Janakpuri, New Delhi. It has a campus spread over eight acres of land with beautiful eco-friendly surroundings. Institute was earlier

operating from four storey building of 6279 sq.m of built up area. Recently it has been shifted to a more spacious seven storeyed building with built up area of 9660 sq.m The institute has over a short span of time acquired and developed impressive infrastructure, expertise and resources for imparting high quality engineering education. The institute runs in two shifts - First/Morning shift and Second/Evening shift providing Bachelor of Technology in CSE, IT, ECE and EEE streams. This AICTE approved Institute under GGSIP University is ideally located in the Institutional area of Janakpuri, New Delhi. It has a campus spread over eight acres of land with beautiful eco-friendly surroundings. Institute was earlier operating from four storey building of 6279 sq.m of built up area. Recently it has been shifted to a more spacious seven storeyed building with built up area of 9660 sq.m The institute has over a short span of time acquired and developed impressive infrastructure, expertise and resources for imparting high quality engineering education. The institute runs in two shifts - First/Morning shift and Second/Evening shift providing Bachelor of Technology in CSE, IT, ECE and EEE streams. Teaching Methodology The institute has a well-qualified and experienced faculty. The most contemporary teaching methodology at MSIT provides ample opportunity for students to develop into all round professionals by keeping abreast of the ever changing technologies. The Institute aims to achieve and excel the high standards set by premiere technical institutions of the country. The traditional classroom teaching is supplemented by regular tests, tutorials, group discussions, extensive lab work, projects, seminars and industrial exposure by way of industry visits and summer training. Eminent academicians professionals are invited as visiting faculty to teach guide specific courses. While teaching engineering fundamentals, keeping pace with the evolving definitions and concepts, a sincere effort is also made to cover the latest in each subject area. The classroom atmosphere is synergetic with interactive and participative sessions. This makes learning proactive and instills in the students a sense of team spirit, responsibility and professional integrity. It helps in building a healthy student-faculty bond, which develops students to their fullest potential and harnesses the best in the teachers. Infrastructure The infrastructure consists of well-lit lecture halls, fully furnished labs, seminar halls, staff rooms, a large size playground etc. For the fresh students there are well equipped labs for 'Applied Sciences', 'Applied Mechanics' and 'Electrical Engg. Lab' in addition to a well-established 'Workshop' and a well-lit 'Drawing Hall'. The six modern air-conditioned networked computers labs cover entire range of Computer Science IT subjects like Software Engg., Network Technology, Mobile Computing, Artificial Intelligence Robotics, Computer Graphics, Compiler Construction, Analysis Design of Algorithms, Interface Programming, Data Structure, DBMS Object Oriented Programming. All labs have licensed software such as Visual Studio,

Provide the weblink of the institution
http://msit.in/media/2021/05/14/institutional-distinctiveness.pdf

8.Future Plans of Actions for Next Academic Year

Future Plans of action for next academic year (500 words) Maharaja Surajmal Institute of Technology is one of the leading Technical Institute in northern India. The Institute focuses on the becoming the most admired centers of academic excellence in the field of Engineering Technology. To realize this objective we are focusing on holistic development of students. To ensure overall growth of students, we plan the following things to be executed in future: 1. Enhancing academic excellence: To improve technical knowledge and skills, faculty members are encouraged to participate in FDPs, Industrial visits etc. The Institute will promote further use of modern technology and tools to effectively deliver lectures to benefit the students and enhance academic excellence. The Institute is organizing an International Conference on Artificial Intelligence and

Applications (7th-8th February, 2020) which will provide an international forum for the presentation of original research findings, as well as exchange and dissemination of innovative, practical development experiences in different fields of engineering. This conference was conceived after analysing the critical requirements and applications based on Artificial Neural networks, Fuzzy systems, Computational Optimization technologies and Machine learning. The aim of this conference is to promote translation of basic research into applied investigation and convert applied investigation into practice. This conference will also create awareness about the importance of basic scientific research in different fields matching with the current trends. The conference will provide the flavour of keynote lectures by eminent speakers from different areas panel discussion by industry people. 2. Pre-Placement Activities/Mock interviews: We are planning to conduct more number of pre-placement activities/ mock interviews for the final year students of all departments by external agencies, alumni and placement coordinators(faculty representatives), so as to help them become industry ready. This is being initiated on basis of feedback received from various stakeholders. 3. Alumni Association: Our Alumni Association has been registered. Currently more than one thousand alumni are regularly in touch with the institution, contributing towards making the institute a centre for excellence. Alumni have been actively helping in internship and placement. The Institute will be emphasizing more on actively working with the alumni association for better internship and placement opportunities. 4. Clean Green Campus: The Institute is focussed on providing a clean and green campus to the students. The Institute has taken essential steps for making the campus plastic free and smoke free. The Institute is further planning necessary steps like switching to alternate energy sources, water conservation etc. 5. Social Activity: The Institute aims at serving the society in a bigger way with the help of staff and students in future. The societies like Prakriti/NSS can organize more philanthropic events like blood donation camps, plantation drives and students can even take up projects (under different schemes like UBA) for providing beneficent services to the society.