



# Standard Operating Procedures : (SOP) Maintenance and Utilization

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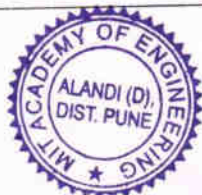
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**STANDARD OPERATING  
PROCEDURES (SOP)**

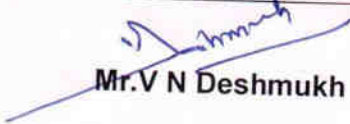

<b>Title</b>	:	Utilization and Maintenance of Classrooms and Laboratories
<b>Beneficiaries</b>	:	Students and Faculty, school of Mechanical Engg.

<b>Procedure</b>	
1	<p><b>Class rooms with ICT facility:</b></p> <ul style="list-style-type: none"><li>As per AICTE, Savitribai Phule Pune University and UGC, the classrooms are identified and assigned for various academic schools by the Campus Engineer in prior to semester beginning.</li><li>MITAOE provides State of the art class rooms</li></ul>
2	<p><b>Maintenance and Utilization of Classrooms</b></p> <ul style="list-style-type: none"><li>The maintenance of Classroom is done on regular basis by the respective academic school's Peon and Cleaning Staff of PIS.</li><li>All Class Rooms are cleaned every day before the start of classes.</li><li>The Class Rooms' White board, benches, podium and lighting facilities are regularly inspected.</li><li>All classrooms are ICT enabled. LCD projectors are used which improves the teaching-learning process.</li><li>Internet facility is available in all the classrooms. The ICT facilities in the campus are maintained by the Systems in the college.</li><li>Any issue is resolved by the respective laboratory/technical assistant.</li><li>The cleanliness is supervised by supervisor of PIS.</li><li>Appropriate Measures to be taken to correct the Problem.</li></ul>



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3	<p><b>Well Equipped Laboratories</b></p> <ul style="list-style-type: none"> <li>• All the laboratories are well equipped and maintained to conduct laboratory courses as per the norms of AICTE and Savitribai Phule Pune University.</li> <li>• Minimum 10% to 15% of free lab slots are allotted for regular maintenance of laboratories. The equipments in the laboratory are maintained by technical assistants.</li> <li>• UPS are in all laboratories.</li> <li>• The laboratories in academic schools are available for use from Monday to Saturday as specified in time table.</li> </ul>
4	<p><b>Maintenance and Utilization of Laboratory</b></p> <p>To ensure smooth functioning of the lab facilities, following procedure is followed:</p> <ul style="list-style-type: none"> <li>• Students of MITAOE must make proper entry in logbook.</li> <li>• The entire lab facilities be under CCTV surveillance which is used to monitor movement in laboratories.</li> <li>• Maintenance and repair if any, are reported to the Dean of the School Lab Co-ordinator of the school.</li> <li>• After getting the approval from dean, the service engineer is called, and the equipment is repaired.</li> <li>• If it is not possible to repair it in the institute, then the equipment is sent to the service center for repair.</li> <li>•</li> </ul>

Prepared by	Approved by
 <b>Mr. V N Deshmukh</b>	 <b>Dr. A M Malge</b> <b>Dean, SME</b>



  
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**STANDARD OPERATING PROCEDURES (SOP)**

**For Maintaining and Utilizing  
Classrooms and Laboratory Facilities**

**MIT ACADEMY OF ENGINEERING, ALANDI (D.), PUNE**

School of Civil Engineering



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## Standard Operating Procedures (SOP) and Policies for Maintaining and Utilizing

### CLASSROOMS AND OTHER INFRASTRUCTURE FACILITIES

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This document describes Standard Operating Procedures (SOP) and Policies for maintaining and utilizing Classrooms and other Infrastructure facilities.

#### Classrooms with ICT facility:

- School of Civil Engineering provides State of the art classrooms with good acoustics and ventilation.
- Based on the requirements of the AICTE, and curriculum, the timetable coordinator identifies the classrooms and assigns them suitably before commencing the semester.
- All the classrooms are equipped with ICT facilities (ICT- Information and communication infrastructure i.e. Projectors, Audio/video visual aids with the internet, etc.).

#### Maintenance and Utilization of Classrooms

- The maintenance of Classroom is done on regular basis by the peon and cleaning staff.
- All Class Rooms are cleaned every day before the classes commence.
- The Class Rooms' board, benches, podium, and lighting facilities are regularly inspected.
- All classrooms are ICT-enabled. The projectors are used to aid and improve the teaching-learning process.
- The Wi-Fi facility is available in all the classrooms. The ICT facilities in the School are maintained by the Computer Lab Assistant.
- The technician / System Administrator of the institute resolves the issues related to ICT facilities.

#### Civil Maintenance:

- List of problems are be identified in all the building components viz. Walls, Flooring, Roof, Doors & windows, Plumbing, and Sanitation.
- The identified problems are reported to the campus engineer through School



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Dean.

- The Campus Engineer takes action upon the complaints received from various rooms subjected to a degree of urgency of the problem.
- The problem is solved using the expertise of skilled workers (available in the institute or hired from outside).
- If any material is required, approval from Director is taken through the dean.

### **Electrical Maintenance:**

- The maintenance of electrical equipment is supported by the electrical maintenance section of the campus.
- The Lighting systems are provided through control panel boards separately for each block.
- Maintenance of Generators and UPS backup is done on an Annual Maintenance Contract with an external agency.



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*Shubla*

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## **Standard Operating Procedures (SOP) and Policies for Maintaining and Utilizing LABORATORY FACILITIES**

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This document describes Standard Operating Procedures (SOP) and Policies for maintaining and utilizing Laboratory facilities.

### **General**

The School of Civil Engineering provides all students and faculty access to high-quality Laboratories to conduct experiments and understand practical applications in their specialized domains relevant to various courses offered. All the laboratories are well equipped and maintained to conduct laboratory courses as per the norms of AICTE. The laboratories operate from Monday to Saturday as specified in the course curriculum. Most of the laboratories are equipped with a required collection of sophisticated equipment to carry out research by the faculty and the students.

### **Laboratory Maintenance**

A minimum of 15% to 20% of unutilized lab slots are allotted for regular maintenance of laboratories. The lab assistants maintain the equipment and machinery in the laboratory. All lighting of laboratories is supported with a power backup system (UPS) and additionally by power generators.

To ensure the smooth functioning of the lab facilities, the following procedure is followed:

- The facilities be designed and constructed in a conveniently accessible manner for differently abled users.
- Students, faculties, and staff utilize the facilities of the laboratories with proper logbook entry, as applicable.
- The laboratories are equipped with a fire management system to save the people and property of the college in case of any unforeseen event.
- First aid kits and regular water supply apart from the basic cleanliness of the premises like regular sweeping, cleaning and mopping of all floors, dusting of



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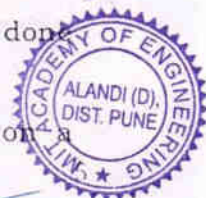
furniture, and shelves, etc. which are looked after by lab assistant and supervised by a lab in-charge / lab-coordinator periodically.

- Breakage and repair if any, are reported to the faculty-in-charge as the case may be and suitable measures are taken to reduce mean time to repair (MTTR) to a minimum.
- The respective lab assistant checks all the instruments and other essentials prior to the start of the course and repairs them if required.
- The respective lab assistant checks the working condition of equipment in the presence of the faculty lab-in-charge at the end-of-semester exams.
- The lab assistant does the servicing of the equipment if any minor repair is required in the lab itself.
- For other repairs, the lab assistant contacts the authorized service engineer with the permission of the School Dean.
- The lab assistant gets the repair of the equipment by following the internal approval procedure. The internal approval procedure is to get the estimation of service charges, approval on it from the Director, call the service engineer, and finally repair.
- If it is not possible to repair it in the institute, then the equipment is sent to the service organization for repair.
- The service engineer, after servicing, gives the service charges in the form of a bill and is reimbursed by the accounts section.
- The equipment that is sent outside for repairs is recorded in a register.
- Equipment is once again checked before the commencement of each semester.

### **Utilization of Labs**

The justified utilization of the facilities is to be governed as per the following rules and guidelines:

1. All High-end equipment is put under call basis maintenance, as and when required.
2. Calibration of some of the essential equipment routinely being used is done on regular basis.
3. Dead stock register and log book for all equipment are maintained on a



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regular basis.

4. The chemicals/consumables are kept in chemical racks/shelves.
5. The laboratories have a sufficient collection of chemicals, glassware, consumable materials, software, and computers wherever applicable.
6. The concerned students and faculty can directly go to the lab and make an entry in a logbook and can work under the supervision of the Lab in-charge / lab assistant.
7. Do and don't instructions are given to users.
8. They have to use laboratory facilities carefully. Defaulters are charged the full replacement cost of the resource.
9. Users are advised to maintain sanctity and cleanliness of labs and maintain discipline while working in the labs to prevent any untoward accident.
10. The users are instructed to follow rules for the efficient functioning of the labs and for the convenience of the coworkers.
11. Following are prohibited in all areas of the labs:

<ul style="list-style-type: none"><li>• Bags be kept in designated area/place.</li><li>• Possession of Food materials.</li><li>• Disturbing students and staff.</li><li>• Damaging lab resources or property.</li></ul>	<ul style="list-style-type: none"><li>• Mobile phones to be kept on switch-off or salient mode.</li><li>• Loitering or soliciting.</li><li>• Sleeping.</li><li>• Smoking.</li><li>• Public intoxication.</li></ul>
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### **Purchasing of Equipment:**

1. Prior to the start of the course, the school Dean identifies the requirements through the lab coordinator according to the syllabus/curriculum.
2. Listing out the different types of equipment and categorizing them i.e. furniture requirement, electrical requirement, consumables, etc. is done.
3. Budgetary quotations and demonstrations are called and a comparative statement of the prices quoted by different vendors is prepared.
4. Estimate approximate budget and get approval from higher authorities.
5. Based on the price negotiations the vendor is finalized.
6. Based on the terms and conditions of the purchase order, the vendor supplies and installs the equipment and necessary training is provided by the vendor to the concern faculty and lab assistants.

7. The bill is passed after the purchased items satisfy all requirements.
8. The details are entered in the dead stock register.
9. The invoice is sent to the account section the account section then send the cheque or online transaction to the vendor.

Approved by,



Dean,

School of Civil Engineering



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MIT Academy of Engineering has an extensive infrastructure for teaching, learning, and research programs. The Institute has an established system for the maintenance and utilization of physical infrastructure facilities. Diagrammatic representations of a procedure for the maintenance of various infrastructural facilities are presented here.

### **Maintenance of Physical Facilities (Building):**

The physical facilities (Building) are maintained by the Institution's Infrastructure Development section, under the leadership of the Registrar's office and which comprises competent Campus Engineer, Infra Engineer, and Infra supervisor. The services of plumbers, new building construction, building repair, and maintenance, are there under this team. The campus engineer identifies or receives the building maintenance work suggestions from every stakeholder of the institute through its official email id [campus.engineer@mitaoe.ac.in](mailto:campus.engineer@mitaoe.ac.in).

After receiving the complaints/ suggestions, the Infra engineer along with the Infra supervisor performs the actual site visit and collects the data and photographs. A meeting is scheduled between all the stakeholders of the infra team and discussion is carried out regarding the received complaints/ suggestions. After this, a thorough plan is prepared and represented in front of the Registrar office for the initial approval.

After receiving initial approval from the Registrar's office, the Infra Engineer carried out the details estimation along with a set of drawings, if necessary. Infra engineer raises his estimation to campus engineer and if found feasible campus engineer approves it. Once the approval is received from the campus engineer, the purchase indent with detailed specifications and quantities is filled by Infra Engineer and submitted to Campus Engineer with the budget note. The purchase indent was then raised to the registrar's office after the sign of the campus engineer and then submitted for further approval from the deputy director admin and director.

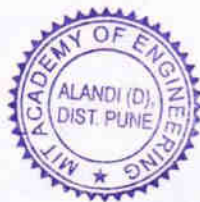
Once the purchase indent is signed the Purchase department called the three quotations from different vendors, as per the mentioned specifications, and submitted them to the purchase committee. A purchase committee comprises of Project Director, Director, Deputy Director (Admin), Registrar, and Purchase head along with Campus Engineer, then decide on the rates and award of the work to a specific vendor.



  
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Once the work is awarded to any vendor in the meeting, the purchasing department prepares Purchase Order mentioning the detailed work specification, quantities, payment terms, and rules and regulations.

Infra engineer and Infra supervisor then start the process with the vendor to complete the work. Once the work is completed the Test report is prepared by the Infra supervisor and Infra Engineer. After the sign of the Campus Engineer on the Test report, the final payment to the vendor is carried out in not more than fifteen days.



  
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## SOP for Laboratory maintenance and utilizing process

### Maintenance of Laboratory Equipment's

1. Regular check-up of equipment's is carried out at the end of every semester.
2. Registers are maintained in the laboratories like Lab utilization, Project attendance, Issue register, Consumable issue register, Repair Maintenance registers, Loan register etc.
3. As per the equipment's minor repair are carried out by the labs technical/Lab staff.
4. Major repair are outsourced by following the procedure of the institute(Calibration of DSO.Function Generator, Digital Multimeter etc)
5. Dead stock register is maintained in Laboratories.



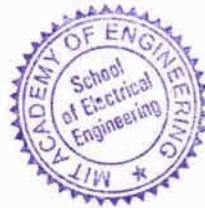
**Nutan V. Bansode**


**Coordinator - Lab. Dev. & Admin**



**Dr. D.Y. Sakhare**

**Dean**



  
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# MIT

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## SCHOOL OF COMPUTER ENGINEERING

### Standard Operating Procedures (SOP) and Policies for Maintaining and Utilizing COMPUTERS, LABORATORIES AND CLASSROOM

This document describes Standard Operating Procedures (SOP) and Policies for maintaining, and utilizing, Computers, Classrooms, and laboratories.

#### **SOP- Maintenance of Computers (Hardware & Software) and Networking:**

**Purpose:** The purpose of this Standard Operating Procedure (SOP) is to form guidelines and procedures to be adopted for maintenance of computers (Hardware & Software) and networking.

**a) Scope:** This procedure is applicable for maintenance of computers in all the laboratories of the school.

**b) Responsibility:** System administrator.

#### **c) Activities/ Information:**

- General Procedure
- Repair Request
- Policies and Procedures

#### **d) General Procedure:**

- Whenever there is a problem with computer hardware or software the respective lab- in charge/individual must record the complaint in complaint register kept in the laboratory.

#### **e) Policies and Procedures:**

- If the concerned lab-in charge can handle the problem, then he/she will resolve the issue otherwise it is forwarded to System Administrator.
- System administrator will maintain a logbook for repair request letter and he will attend the problem.
- In due course of repair, if the need for purchase of spare parts arises, the request from system administrator is raised and the same is submitted to director through Dean SCE for its approval



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**f) Guidelines for the users:**

- For utilization of computers, the users have to make an entry in the log register.
- The user is not allowed to plug in their external drives without prior permission.
- The respective user will be held responsible for any damage or malfunction of the computer.
- There will be no claim for loss of data saved on desktop.
- The user should not delete/uninstall any data or software.

**g) Records to be Maintained:**

- Complaint Register
- Logbook containing students' entry and Exit timings.
- DSR record of respective lab.

**Classrooms with ICT facility:**

- SCE provides State of the art class rooms with good acoustics and ventilation.
- Based on the requirements of the AICTE, SCE and curriculum, the classrooms are identified and assigned for various classes prior to semester beginning.
- All the classrooms are equipped with ICT facility (LCD projectors, Audio/video visual aids with internet etc.).

**Maintenance and Utilization of Classrooms**

- The maintenance of Classroom is done on regular basis by the department attender and cleaning staff.
- All Classrooms are cleaned twice in a week.
- The classrooms' board, benches, podium, and lighting facilities are regularly inspected.
- All classrooms are ICT enabled. LCD projectors are used to aid and improve the teaching learning process.
- Either LAN or Wi- Fi facility is available in all the classrooms.

  
Lab Coordinator

  
Dean

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# MIT Academy of Engineering

Alandi, Pune

3<sup>rd</sup> April 2022

## SOP FOR CENTRAL LIBRARY


A library plays a vital role in the curricular development of its stakeholders & also satisfies the reader's thirst for knowledge. A library also plays a crucial role in acquiring, organizing, and disseminating information. The MITAOE central library system supports the institution's teaching-learning and research program to meet the needs of faculty, staff, and students. The MITAOE Central Library is a rich, diverse and permanent source of knowledge (textbooks, reference books, general books, periodicals, e-books and e-magazines, encyclopaedias, handbooks, datasheets, bound volumes, CD-ROMs, floppies, video lectures, digital libraries, online resources and other reading materials) and provides access to them.

The Central Library provides access to the information, services and opportunities that enable, enrich and promote the quality of life for all of its users.

### PROCEDURE

- ❖ The Central Library remains open from Monday to Friday from 8.30 to 10.00 pm; however, on Saturdays, Sundays, and other public holidays from 9.00 am to 5.00 pm. We are open all 365 days except for 3 National, Holi and Diwali holidays.
- ❖ The annual Central Library budget is received for the purchase of print and online journals, computers, consumable items etc.
- ❖ The Central Library committee meets thrice a year or when required for the collection development of library resources and their optimum utilization, etc.
- ❖ The Central Library collects the requirements of library resources from the concerned faculty members through a committee member duly signed by the School Dean and Deputy Director (A&R). After scrutinising it, it gets approved by the director. The approved requirement is then submitted to the purchasing department for further processing.
- ❖ Adopted open access system.
- ❖ On obtaining an approved purchase order for books and magazines from the purchasing department and it's sent to the supplier for further processing. After receiving the books/magazines, it is checked for any damages.
- ❖ All books/magazines are processed and sent to the circulation section for usage. After which the bills are forwarded to the Accounts Department for payment.
- ❖ The display of periodicals in the periodical section for use.
- ❖ The arrival list of books and magazines is always displayed on the notice board.
- ❖ To follow the book-purchasing process to subscribe online e-resources.
- ❖ 10 PCs are allotted to the library and dedicated to the students to access the library database and in-house and subscribed resources.
- ❖ The Central Library Orientation Program is conducted once a year for the students of FY and SY.
- ❖ All the faculty, staff, and students of MITAOE are allotted memberships for the Central Library.
- ❖ The Central Library uses SLIM21 Library Management Software to conduct all its routine functions. The members of the Central Library provide all the resources and information regarding the membership for the smooth functioning of the library.
- ❖ From FY to TY students Central Library issue 5 books, however 7 books to B. Tech students for the period of 15 days. The books are made available to the faculty members for 30 days.
- ❖ All users receive an email reminder the day before, the same day, and the day after their due date.
- ❖ A fine of Rs 2 per book is charged every day after the due date has passed.

- ❖ If the user loses the book, they will have to submit a new book or new edition to the library, and if the book is out of print, the users will have to pay twice the current price of the book.
- ❖ The Central Library follows the Dewey Decimal Classification Scheme, which means arranging the books on the shelves in hierarchical order and then alphabetically, author-wise, for classifying books.
- ❖ The returned books are arranged on the shelves by the book lifter on a daily basis.
- ❖ Stock verification is done once in three years.
- ❖ Attendance registers are maintained at the entrance, digital library section and reference section to track the use of central library resources.
- ❖ The central library is maintained daily by cleaning staff.
- ❖ Pest control is carried out frequently by an expert company to protect the library's resources from all insects.
- ❖ The books are periodically checked for minor damages and are promptly repaired by library staff, and in case of major damages, the books are sent for binding after approval by the authorities.
- ❖ Maintenance of library equipment, furniture, etc. is done by submitting a requisition for the same to the purchase section.
- ❖ The Central Library frequently updates the information, rules, and regulations regarding the Central Library displayed on notice boards and bulletin boards.

  
Ms. Vandana Khandelwal  
Librarian



  
Dr. Mahesh Goudar  
Director  
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## SOP OF WORKSHOP MAINTENANCE

### MAINTENANCE BY WORKSHOP TEAM:


- For breakdown as well as preventive maintenance the requisition slips are collected centrally at office of WS.
- All requisitions are priorities as per urgency, need and nature of the problem and availability of man, machine, material and money.
- Once priorities have been decided, the maintenance expert visits the place of maintenance.
- After visiting and analysis of the nature and scope of the maintenance the maintenance experts submits the feedback to WS.
- Further maintenance experts attends the problem and gives feedback to WS.
- After the completion the work is cross checked by WS and shown to concern person.

### MAINTENANCE BY THIRD PARTY:

- Three quotations are called.
- Comparative statement is prepared.
- Negotiation meeting is held.
- Specifications, quality and cost discussion and negotiations done.
- Work order / purchase order to lowest supplier is sent.
- Terms and conditions of WO/PO are followed.
- Work get done by third party team.
- Inspection by internal experts and WS.
- Balance payment done if any as per WO/PO conditions.



  
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Workshop superintendent  
**Workshop Superintendent**  
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**Policy for maintaining the IT Infrastructure**

**Data Related to CR Point 4.4.2**

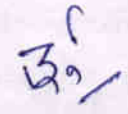
1. Subscription of the internet leased line for the campus is being taken care of by the system department. Every year, the quotations are called from the ISP Providers and a good vendor is chosen to provide the Internet Bandwidth for the period of one year. On the expiry of the contract, the same process is repeated.
2. Systems Department has taken care of the Institute's Domain Name Registration, Domain Name renewals, and Web Hosting of the important websites.
3. All the Computer Systems, Servers in the Internet centre are maintained by the staff of the system department. All the networking-related devices like network switches, access points, wireless controller units, and firewalls, are configured and maintained by the system department staff.
4. The WIFI Access on the Campus is managed by the Systems Department Staff. Google form is circulated to all Faculty Staff and Students for registering their WIFI Device to access the internet on the campus.

**Following is the Registration URL: For filling up the form for getting WIFI Access.**

<https://goo.gl/forms/3iHHgeXx9WWI1C6q1>

5. The internet browsing facility through LAN is controlled by the Systems Department using the Sonicwall Firewall and Radius authentication.
6. The computer Desktops in the Laboratories and Laptops at various Schools are maintained by the Laboratory Assistant at the ground level. The software and Operating Systems are installed by the Laboratory Assistants. Similarly, the basic-level Computer hardware / Software / Networking related issues are resolved by the respective Laboratory Assistants. In the event that the fault is severe, it is reported to the Systems Staff, who then resolves it. The Systems Department has One System Administrator, One Chief Network Administrator, and One Laboratory Assistant to handle all kinds of technical issues. If the fault is major and cannot be resolved in-house, it is then resolved by external experts.

7. The CCTV Surveillance System is maintained by the Systems Staff at our Institute. The basic level electronics-based faults related to the CCTV Surveillance Systems and networking are resolved by the System. In cases where the fault is beyond the level of troubleshooting of in-house staff, an expert's help is sought to resolve the issue.
8. A separate Cyber Security and IT Policy are prepared for the institute.
9. The support for the G Suite E-Mail Domain, Google Classroom, Google Meet, and MS Teams is provided by the Systems Staff.
10. E-Mail ID Creation, Activation-Deactivation of Mail Accounts, and Group Emails ID creation tasks are all handled by the Systems Staff.
11. Online LMS Platforms like Online Moodle Server are managed by the Systems Department Staff.
12. Microsoft Campus Licences and MATLAB SW Licences Purchase Renewals are managed by the Systems Staff. Other Software required by the various Schools as per their needs is purchased by the respective School Deans.
13. The campus-level Symantec Endpoint Protection Antivirus software Licences purchase and its Server Installation are done in three Servers by the Systems Staff. Antivirus software is installed by the respective Lab assistants in all departments at their level.
14. The Moodle Server is hosted on Cloud Server (Outsourced to the agency in Bangalore). The Systems Administrator configures semester-wise courses and other daily operations related to Moodle Server.

  
**Dr. Mahesh D. Goudar**

**Director,  
MIT Academy of Engineering, Alandi**

**DIRECTOR  
MIT Academy of Engineering  
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## SOP for Electrical Maintenance

**Electrical Drawing:** Update Single Line Diagram of Premises including earthing system, Electrical Drawing of HT, LT Cables, DG, UPS etc. Update as a when required.

**Lightning Protection System:** Update & check Lightning Protection system diagram with earth pit after a year.

**Earthing System:** Ensure only one type of earthing system and also ensure separate earthing connection for Transformer, Generator, and Electrical System. Check & register earth resistance half yearly for all earth pits.

**Electrical Preventive Maintenance Log:** Keep updating your preventive maintenance log in Director Office. Solve queries raised there in or on Urgent call basis. Emergency & Exit light check monthly, Ceiling fan checking after 04 months.

**Cables loading:** Ensure electrical cable is loaded not more than 75% of its loading capacity.

**Cable Connection/termination:** Ensure that all the cable terminations/connections are tightened firmly. LT cables check quarterly. UPS & Cable trench/Tray/ladder: keep clean from dust and spider net. Cable trench/Tray/ladder check quarterly.

**Electrical tools & Instruments:** Ensure calibrated instruments and proper insulation for all the electrical tools used by electricians.

**Preventive maintenance of Solar System:** Check lugs of all the cables, Earth resistance, Status of Inverterregularly. Weekly gets Solar panel cleaned.

### Safety:

Personal safety: The Electrician should wear protective safety gear such as boots, gloves, apron, electrical safety glasses and earplugs to protect him or her from Electric shocks and other environmental hazards.



Mr. SatishKabra

  
DIRECTOR  
MIT Academy of Engineering  
Alandi (D.), Pune-412 105.



**WATER FACILITY**  
**MIT Academy of Engineering, Alandi**

**PURIFIED WATER FACILITY**

In the college location, the water is having high Total Dissolved Solids (TDS) and is not potable for consumption with capacity of 2000 liter / hour. It has to be treated before supply for drinking. Water treatment plant with reverse osmosis technology is available to provide quality drinking water. One unit of Reverse Osmosis water purifier system (RO-20-6S-3H) have been purchased and installed in college campus near boy's hostel locations for the use of faculty, staff and students. The water treatment plant provides safe drinking water at every tap on the campus. A high level of maintenance attention and regular testing ensure the quality of the water. Water treatment plant with reverse osmosis technology is available to provide quality drinking water.

**Reverse Osmosis Plant Facility:**

The Reverse Osmosis Plant installed in the college caters to the drinking water needs of all the Students, faculty, supporting Staff and the Visitors. The raw water with an average Total Dissolved Solids [TDS] of 750-1000 ppm is treated to reduce the TDS content to less than 100 ppm , the generally acceptable upper limit of the TDS

**Three stages in Reverse Osmosis Plant**

- Stage 1: Pretreatment
- Stage 2: Membrane filtration
- Stage 3: Post treatment

The maximum capacity of the plant is 2000 liters per hour. The utilized capacity is 1000 lit/hr. potable water. This water is pure, tasty and hygienic rendering it highly suitable for human consumption.

The reject water from the plant is used for gardening and washing purposes.

This plant not only facilitates the supply of safe drinking water but also obviates the otherwise involved huge expenditure for procuring drinking water for the large number of people in the campus.

Now the institution can be liberal in the provision of our own made RO water.



Mr. Sunil B. Dewalwar

Reverse Osmosis In-charge

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