

**A  
Report**

**on**

**“EESA Activity 2023-24”**

**Submitted by**

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**2023-24**



**Dr. Babasaheb Ambedkar Technological University,  
Lonere Mangaon Raigad - 402103**

**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**ELECTRICAL ENGINEERING STUDENT**  
**ASSOCIATION (EESA)**

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## Abstract

EESA is a dynamic and all-round forum through which students electrical engineering can foster their talent leading to their overall development. EESA actively organizes expert lectures and personal development programmers by inviting eminent personalities from the industry and institutes of repute. It also conducts regular aptitude and technical tests keep the students prepared for various competitive examinations. It he developed its owt library, which includes technical reference competitive book etc. The association arranges field visits for the students to various prominent industries to reinforce the theoretical knowledge.

EESA is one of the most active student associations, which not on concentrates on technical activities but also helps to improve the student participation in co-curricular as well as extracurricular activities. Thus, it help the students in developing various facets of their personalities to blossom complete individual

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## 1) Aptitude & Reasoning Test

Date : 2 Times In A Month

Time : 4:30 P.M.

Venue : LH 201 & 208, DBATU, Lonere

An aptitude test was conducted recently to assess the cognitive abilities, skills, and potential of the participants. The aim was to evaluate their suitability for various tasks, roles, or educational programs. This report provides an analysis of the test results, highlighting key findings and insights gained from the assessment. Methodology: The aptitude test comprised of multiple-choice questions covering various domains such as verbal reasoning, numerical reasoning, abstract reasoning, and logical reasoning. Participants were asked to complete the test within a specified time frame. Ability to comprehend and analyze written information, draw logical conclusions, and solve problems based on textual content. Proficiency in interpreting numerical data, understanding patterns, and applying mathematical concepts to solve problems. Capability to recognize patterns, relationships, and sequences in non-verbal information. Aptitude for critical thinking, deductive reasoning, and making sound judgments based on given premises. A total of 75 to 80 individuals participated in the aptitude test.







## 2) Sport Week

Date : 19 March to 22 March 2024

Venue : DBATU University Ground , Lonere

Sports week from 19th-22nd March 2024. The sports week was supervised by Prof. Ajinkya Sir and Prof. Pranit Sir, sports convenor and his team along with the student council. The kick-off started with an opening ceremony. The Sports was a four day fixture of different items ranging from individuals and group events for both boys and girls. The Games & sports items constituted Football, Cricket, Volleyball, Basketball, Tug of war, Relay race along with track and field events. Indoor items like Table tennis, Badminton were also conducted. Winners of various games & sports were given a certificate of Merit along with medals. The overall Champion was taken over by the Blue House. Certificate of Appreciation were also given to all the commentators and 20 individuals, Task-force five from each house who assisted the council members. Certificates were also given to the outstanding players in the group events i.e. Football, Volleyball, basketball & cricket for both boys & girls. The closing ceremony was conducted in collaboration with the Cultural Committee of the College. The closing ceremony included in it a cultural presentation from different houses which was followed by the price distribution. Word of thanks was given by the Games & Sports Secretary. The program concluded with a benediction









### 3) TT Injection Camp

Date : 25 March 2024

Time : 11:00 A.M.

Venue : Primary Health Care Center - Diploma Wing ,

Lonere Tetanus Vaccination camp was organized EESA by Primary Health Department on Monday (25/02/2024). On that day all the sports participate students of first year , second year, third year of department of electrical engineering, were vaccinated and the staff members were also vaccinated.

The primary objective of the camp was to offer prompt tetanus prophylaxis to injured students, ensuring their health and safety during the intensive sports activities. The camp was organized by Tech University Health Services in collaboration with the Department of Sports and Physical Education, featuring a medical team led by five medical assistants. Activities included registration and initial assessment of injuries from 10:00 AM to 11:00 AM, administration of TT injections and provision of first aid and wound care from 11:00 AM to 3:00 PM, and a health education session on tetanus prevention, wound care, and sports safety from 12:00 PM to 3:00 PM. Students were monitored for any adverse reactions and provided with follow-up care information from 3:00 PM to 4:00 PM. The camp saw participation from 30 injured students who received TT injections and over 50 students attended the health education session. Participants expressed gratitude for the timely and efficient medical care provided, and the health education session was found to be informative and beneficial. The TT Injection Camp was a crucial initiative during Sports Week, ensuring the health and safety of injured students, and received positive feedback for its effectiveness and importance in promoting student health and safety during university events.



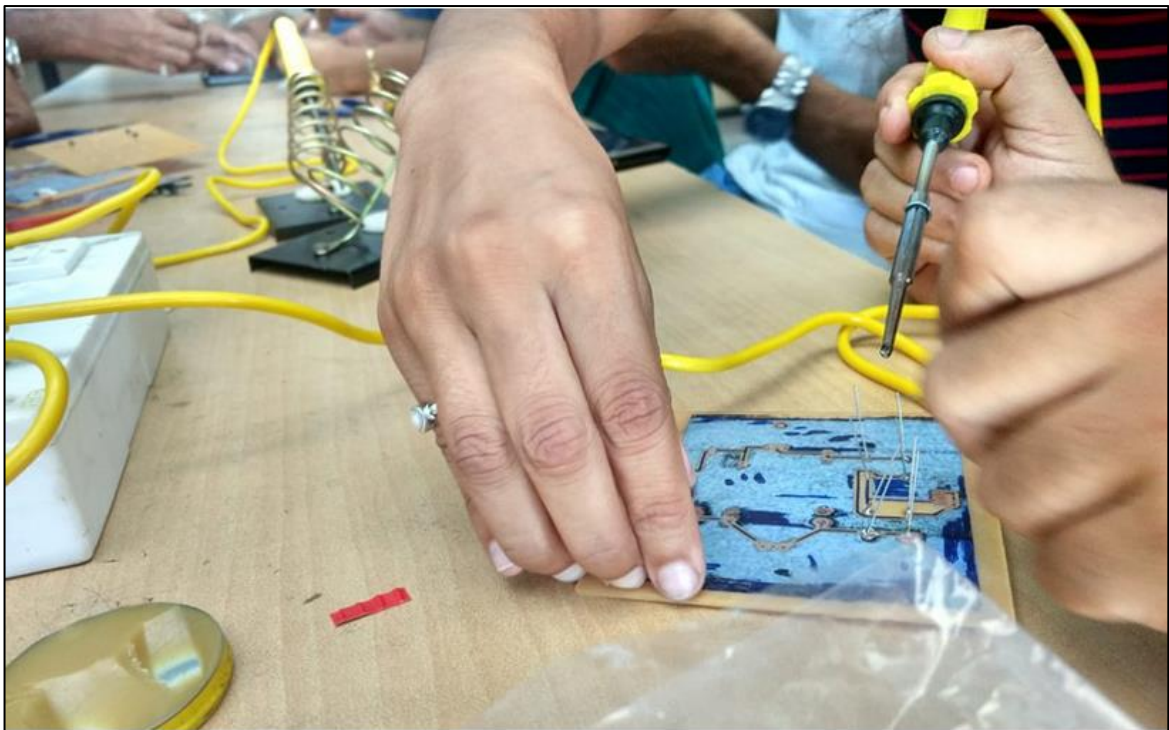
#### 4) Workshop Event

Introduction to electrical engineering principles, including the basics of electricity and magnetism, voltage, current, and resistance, from 9:30 AM to 11:00 AM. After a short break, the session continued with an overview of circuit components such as resistors, capacitors, inductors, and diodes, from 11:15 AM to 12:30 PM.

A lunch break was provided from 12:30 PM to 1:30 PM. The afternoon session started with an introduction to circuit design software, including tools like LTSpice and Multisim, from 1:30 PM to 2:30 PM. Participants then engaged in a hands-on session to build and test simple circuits from 2:30 PM to 4:00 PM. This practical session allowed participants to apply their newly acquired knowledge and skills in a controlled environment, with guidance from experts.

The workshop featured speakers and instructors such as , Prof. M.F.A.R. Satarkar Professor of Electrical Engineering at Tech University, , Technical Specialist at Circuit Design Co. With 50 enthusiastic participants, including students, researchers, and professionals, the workshop provided materials such as a workshop handbook, a circuit components kit, and access to circuit design software.

Participants found the workshop highly beneficial, appreciating the hands-on sessions and the expertise of the instructors. Many expressed interest in attending future workshops on more advanced topics. Overall, the Electrical Engineering and Circuit Building workshop was a successful event, providing valuable knowledge and practical skills to all attendees. The feedback received will help in planning future workshops to cater to the interests and needs of the participants.



## 5) Guest Lecture

### Date and Time:

- Date: April 5, 2024
- Time: 10:00 AM - 12:00 PM

**Venue:** Seminar Hall, Electrical Engineering Department Dr. Babasaheb Ambedkar Technological University, Lonere

**Guest Speaker:** Mr. Raj Singh, Director of Precon Automation & Systems Pvt Ltd, Mumbai

### Event Highlights:

1. **Welcome and Introduction:** The event commenced with a warm welcome address by Prof. Pritam, who introduced the esteemed guest speaker, Mr. Raj Singh. Prof. Pritam highlighted Mr. Singh's extensive experience and contributions to the field of automation, setting the stage for an insightful session.
2. **Guest Lecture by Mr. Raj Singh:** Mr. Raj Singh began his lecture by providing an overview of the current landscape of automation technology, discussing the rapid advancements and integration of automation in various industries. He emphasized the importance of automation in enhancing efficiency, reducing operational costs, and improving quality across sectors such as manufacturing, healthcare, and logistics. **Interactive Session:** Following the lecture, an interactive session was held where students had the opportunity to ask questions and engage in discussions with Mr. Singh. The questions ranged from technical aspects of automation to career guidance and industry expectations. Mr. Singh's responses provided valuable insights and clarity on various topics.
3. **Break and Refreshments:** A short break was given during which snacks were provided to the students. This break allowed participants to network and discuss the lecture content amongst themselves.
4. **Vote of Thanks:** The event concluded with a vote of thanks delivered by Prof. Anand. He expressed gratitude to Mr. Raj Singh for his informative and inspiring



lecture, and also thanked the organizing committee, faculty members, and students for their participation and support in making the event a success.

**Conclusion:** The guest lecture on the “Scope of Automation in India and Abroad” was a significant success, providing students with a comprehensive understanding of the field of automation and its potential. The collaboration between the Department of Electrical Engineering, EESA, and Precon Automation & Systems Pvt Ltd was instrumental in the event’s success. The positive feedback from participants highlights the importance of such events in bridging the gap between academic learning and industry practices.



## 6) Industrial Visit

### Industrial Visit to Tata Hydro Power Plant , Bhira

The Department of Electrical Engineering organized an educational and informative industrial visit to the Tata Hydro Power Plant in Bhira on May 14, 2024. The visit was designed to provide third-year Electrical Engineering students with a practical understanding of the theoretical concepts learned in their coursework, particularly in the context of hydroelectric power generation.

#### Participants:

- Third-year Electrical Engineering students
- Faculty: Prof. A.M. Bhaware, Prof. P.V. Patil, and Mrs. P.S. Padwal

#### Coordinators:

- Prof. A.M. Bhaware
- Prof. P.V. Patil

#### Event Highlights:

1. **Arrival and Welcome:** The group arrived at the Tata Hydro Power Plant at 9:00 AM and was warmly welcomed by Mr. Amit Upadhyay, the Training Coordinator at Bhira.
2. **Introduction to Power Generation:** Mr. Amit Upadhyay began the visit with a brief introduction to the principles and working mechanisms of power generation systems. He explained the fundamental concepts of hydroelectric power, highlighting the conversion of potential energy from water into electrical energy.
3. **Detailed Explanation of Generator and Turbine:** The students were then given an in-depth explanation of the working specifications of the generators and turbines used in the electricity generation process. Mr. Upadhyay elaborated on the functionality of the six 25 MW Pelton turbines and the 150 MW pumped storage generator, which together contribute to the plant's maximum output capacity of 300 MW.
4. **Tour of the Facilities:** The students were taken on a comprehensive tour of the power plant facilities. They observed the control room operations, the layout of

the turbines, and the generator units. Special attention was given to the two 10 kW microturbine units, which generate additional power from the tailrace after the main turbine.

5. **Interactive Q&A Session:** An interactive question and answer session was held, where students engaged with Mr. Upadhyay and other plant engineers. They asked various questions regarding the technical aspects, challenges, and innovations in hydroelectric power generation. The session was highly informative and provided valuable practical insights into the operations of a hydroelectric power plant.
6. **Educational Presentation:** A presentation was delivered by Mr. Upadhyay, summarizing the key points discussed during the visit. He highlighted the importance of sustainable energy practices and the role of hydroelectric power in the current energy scenario.
7. **Closing Remarks:** The visit concluded with closing remarks by Prof. A.M. Bhaware and Prof. P.V. Patil, who expressed their gratitude to the Tata Hydro Power Plant team for their hospitality and the enriching learning experience provided to the students.

**Feedback:** The students found the industrial visit to be highly educational and beneficial. They appreciated the opportunity to see firsthand how theoretical concepts are applied in real-world power generation. The visit also inspired many students to consider careers in the field of renewable energy and power systems.

**Conclusion:** The industrial visit to the Tata Hydro Power Plant, Bhira, was a resounding success. It effectively bridged the gap between classroom learning and practical application, providing students with a deeper understanding of hydroelectric power generation. The collaboration and coordination between the Department of Electrical Engineering and the Tata Hydro Power Plant team were instrumental in the success of this visit. Such initiatives are crucial in enhancing the practical knowledge and skills of engineering students, preparing them for future challenges in the industry.

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## 7) FAREWELL DAY CELEBRATION

“We started here together and now here we are leaving the same way. The funny thing is you never appreciate what you had yesterday until it is gone Today”. College Farewell parties are always an exciting affair and bring alive a lot of happy memories. EESA organized Farewell Party on 1st June 2024 at the college diploma wing auditorium, where students of B.Tech 3rd year bid farewell to the outgoing students of B.Tech final year with great enthusiasm. Function began with a Dip lightening by , Hod of Electrical engineering of department by staff . This event was coordinated by EESA committee members and students. HOD wished good luck to the final year students for their future. He also expressed his hope that students will continue holding best positions in upcoming university exams. Final years gave inputs to 3rd years to go ahead in building their careers. Most of the placed students shared their experiences in interviews such as GD, Aptitude, Verbal Reasoning and HR sessions, faced during campus selections. They even guided their juniors about the various fields that can be opted once they are in Final years and gave suggestions regarding the Universities providing specific courses based upon the student’s interest and grades. Juniors even got opportunities to discuss about the doubt full issues regarding their career. All the seniors and juniors had filled the auditorium with colourful attires which added beauty to the event. Juniors gave a warm welcome with Red Roses followed by very entertaining group dances, solo dances and solo song performances. As it was noon and rats were racing in their stomachs, they took a break for the delicious lunch organized by the juniors. Conversations during the meal provided opportunities for the students to bond, plan, connect, and learn from one another. Once they were recharged, they started the fun again. Difernent types of prizes get distribute of sports etc. At the end “Best Out Going Student” award was given to Mr. Sumedh Paikrao for the overall performance of all four year. Token of love and appreciation was given to the seniors by their juniors. Token of love was presented by Faculties. The day ended by capturing memories with photo sessions. Atlast the auditorium was geared up with DJ filling high energies and immense pleasure among all, with the stamps of amazing memories and fun.







