



# Government Polytechnic Lakhisarai

## Department of Electrical Engineering

(North of Vidyapeeth Chowk Lakhisarai- 811311)

Email ID- hodeelkr@gmail.com, Mob:-+918920886304

POs Attainment Levels and Actions for Improvement – (Session 2022-25)

Approved Target Level for POs and PSOs (Session: 2022-25) are :

| PO AND PSO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PSO1 | PSO2 |
|------------|-----|-----|-----|-----|-----|-----|-----|------|------|
| TARGET     | 2.5 | 2.4 | 2.3 | 2.2 | 1.9 | 1.8 | 2.3 | 2.4  | 2.45 |

PO 1 : Basic and Discipline specific knowledge

| POs  | Target Level | Attainment Level | Observations                                                                                                                                                      |
|------|--------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 1 | 2.5          | 2.537            | 1. It is observed that target level is successfully achieved.<br>2. Students are weak in English literature and are difficulty to grasp engineering fundamentals. |

Action for Improvement

- Action 1: Students are enrolled in Language lab to improve the English communication.  
Action 2: Mentoring- Personal attention is given and counselling is done for weak students to uplift their confidence through mentoring systems for students of each semester.  
Action 3: Tutorials conducted focusing the knowledge of engineering fundamentals.

PO 2 : Problem analysis

| POs  | Target Level | Attainment Level | Observations                                                                                                                                                |
|------|--------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 2 | 2.3          | 2.532            | 1. It is observed that target level is successfully achieved.<br>2. Department have also realized lack of practices in subjects where analysis is required. |

Action for Improvement

- Action 1: More focus is given to the students on analyzing various interpretations in lab courses.  
Action 2: Faculty members will take extra efforts to provide assignments to the students and also guide them to use online study material available like MOOCs/ Swayam/Coursera courses which are self-paced and have no fixed schedule.  
Action 3: Training on EV & Robotics has been arranged for students in college campus.

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## PO 3 : Design/ development of solutions

| POs  | Target Level | Attainment Level | Observations                                                                                                                                                                         |
|------|--------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 3 | 2.3          | 2.485            | Though target level is moderately achieved and it is found that Students still need necessary skills to solve practical problem for the engineering problems are moderately achieved |

### Action for Improvement

Action 1: Strengthen design-based mini projects and assignments.

Action 2: Promote use of CAD tools and simulation software in design subjects.

Action 3: Faculty is advised to give application-based assignments to students.

Action 4: Encourage innovative design solutions through project reviews and seminars.

## PO 4 : Engineering Tools, Experimentation and Testing

| POs  | Target Level | Attainment Level | Observations                                                                                                                                                                         |
|------|--------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 4 | 2.3          | 2.5              | 1. It is observed that target level is satisfactorily achieved.<br>2. Though target level is achieved students need to get familiar with the latest tools in Electrical Engineering. |

### Action for Improvement

Action 1: Modern tools are demonstrated to the students for their enrichments in new industrial Areas.

Action 2: Industrial expert's lecture/Seminar are arranged to make the students aware of advanced technologies in industries for this MOU's are signed with different industries.

Action 3: More practical sessions are arranged and Students are motivated to watch online.

## PO 5 : Engineering practices for society, sustainability and environment

| POs  | Target Level | Attainment Level | Observations                                                                                                                                           |
|------|--------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 5 | 2.3          | 2.535            | 1. Though it is observed that target level is satisfactorily achieved but students need to relate engineering knowledge to solve societal problems. 2. |

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|  |  |  |                                                                       |
|--|--|--|-----------------------------------------------------------------------|
|  |  |  | There is a need to put an extra efforts to make students aware about. |
|--|--|--|-----------------------------------------------------------------------|

### Action for Improvement

Action 1: Students are encouraged to indulge in projects, in which global and environmental issues are improved during their Mini & Major Project.

Action 2: Participation of students in cleanliness drive and tree plantation under National Service Scheme (NSS) chapter of college.

Action 3: To create awareness about standardization in day-to-day life BIS club is established at college level.

### PO 6 : Project Management

| POs  | Target Level | Attainment Level | Observations                                                                                                                                                                           |
|------|--------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 6 | 2.3          | 2.584            | 1. It is observed that target level is successfully achieved.<br>2. Although target is achieved, Students showed difficulty in adhering to project timelines, documentation practices, |

### Action for Improvement

Action 1: Structured project management guidelines were introduced, including defined team roles and work breakdown structure for minor projects and major projects.

Action 2: Periodic project reviews, peer evaluation, and rubric-based assessment were implemented to monitor individual contributions and improve accountability.

### PO 7 : Life-long learning

| POs  | Target Level | Attainment Level | Observations                                                                                                                                                                                              |
|------|--------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO 7 | 2.3          | 2.503            | 1. It is observed that target level is successfully achieved.<br>2. Attainment is higher than the target, indicating that students demonstrate sufficient for self-learning and professional development. |

### Action for Improvement

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Action 1: Library sessions are planned to include in the timetable.

Action 2: Students are motivated to use various apps on smart phones to enhance their self-learning skills.

Action 3: Students are encouraged to enroll various e-learning platforms for training/ certification courses

### PSOs Attainment Levels and Actions for Improvement- (2022-25)

**PSO 1 : Maintenance and control of various types of static and rotating electrical machineries and electrical power system components.**

| PSOs  | Target Level | Attainment Level | Observations                                                                                                                                                                                           |
|-------|--------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PSO 1 | 2.3          | 2.475            | 1. It is observed that target level is successfully achieved.<br>2. Attainment exceeds the target, reflecting that students are industry-ready and capable of contributing to society and the nation.. |

#### Action for Improvement

Action 1: Strengthen industry interaction through industrial visits and expert talks.

Action 2: Promote interdisciplinary projects and practical exposure.

Action 3: Encourage internships and skill-based certification programs..

**PSO 2 : Understand the impact of engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.**

| PSOs  | Target Level | Attainment Level | Observations                                                                                                                                                                                                          |
|-------|--------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PSO 2 | 2.3          | 2.475            | 1. It is observed that target level is successfully achieved.<br>2. Attainment meets the target, indicating that students are able to apply engineering principles, analytical tools, and creative ideas effectively. |

#### Action for Improvement

Action 1: More industrial and practical interaction are provided to students.

Action 2: Increase analytical and tool-based problem-solving activities.

  
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## Department of Electrical Engineering

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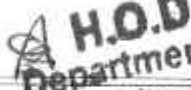
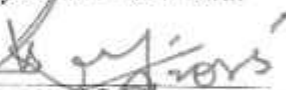
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Action 3: Encourage innovation-driven projects and technical competitions. presentation activities and group discussions were incorporated into coursework to improve communication skills

Action 3: Students are enrolled in Language lab to improve language skill.

### Overall Observation and Action Plan

Based on the reported attainment data, the target levels for PO1, PO2, PO3, PO5, PO7, PSO1 and PSO2 are achieved/exceeded, while PO5 and PO6 require continued attention because their attainment is marginally below the stated target. The Department will continue the identified improvement measures, with particular emphasis on engineering tools, experimentation, project planning, teamwork and management skills. The effectiveness of the actions will be reviewed through subsequent CO/PO/PSO attainment analysis and departmental review mechanisms.

| Reviewed By                                                                                                                                                                                                  | Verified By                                                                                                                                   | Approved By                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H.O.D<br>Dept. of Electrical Engg.<br>Signature: <br><b>H.O.D</b><br><b>Department of</b><br><b>Electrical Engineering</b> | Shri Saurav Kumar<br>NBA Coordinator<br>Signature: <br>-ral | Principal<br>Govt. Polytechnic Lakhisarai<br>Signature: <br>26.00.2023<br><b>Principal</b><br><b>Govt. Polytechnic, Lakhisarai</b> |
| DAB / PCC Committee<br>                                                                                                   | Date: _____                                                                                                                                   | Date: _____                                                                                                                                                                                                            |

  
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# GOVERNMENT POLYTECHNIC LAKHISARAI

## Department of Electrical engineering

• Criterion 7.2

### Success rate without backlogs in any year of study

| Items                                                                                                                                                                             | LYG<br>(2022-23) | LYG m1<br>(2021-22) | LYG m2<br>(202-21) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------------|
| Total Number of students<br>(X) (admitted through state<br>level counseling + admitted<br>through Institute on Level quota +<br>admitted through Lateral entry)<br>(N1 + N2 + N3) | 31               | 29                  | 31                 |
| Number of students who<br>have graduated without backlogs<br>in the stipulated period (Y)                                                                                         | 7                | 6                   | 6                  |
| Success Index [ $SI = Y / X$ ]                                                                                                                                                    | 0.24             | 0.21                | 0.19               |

  
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**GOVERNMENT POLYTECHNIC LAKHISARAI**  
**Department of Electrical engineering**

**Total no. of students admitted in 1<sup>st</sup> sem and 3<sup>rd</sup> sem(LE) (X)**

**Batch: 2022-25**

| Sl. No. | Roll no.     | Student Name        |
|---------|--------------|---------------------|
| 1.      | 111262022001 | GULSHAN KUMAR       |
| 2.      | 111262022003 | VIRENDRA KUMAR      |
| 3.      | 111262022004 | ANSHU KUMAR         |
| 4.      | 111262022006 | ALOK KUMAR          |
| 5.      | 111262022008 | MANISH KUMAR        |
| 6.      | 111262022009 | KHUSHI KUMARI       |
| 7.      | 111262022010 | SHYAM KUMAR         |
| 8.      | 111262022012 | BIKASH KUMAR        |
| 9.      | 111262022013 | SANGAM KUMARI       |
| 10.     | 111262022014 | AVINASH KUMAR       |
| 11.     | 111262022015 | DHAUNI KUMAR        |
| 12.     | 111262022017 | SUDHANSHU KISHOR    |
| 13.     | 111262022018 | AMAN KUMAR          |
| 14.     | 111262022019 | RAUSHAN RAJ         |
| 15.     | 111262022020 | PRASHANT KUMAR      |
| 16.     | 111262022021 | SHIVAM KUMAR        |
| 17.     | 111262022022 | SOURABH KUMAR       |
| 18.     | 111262022023 | UTTAM KUMAR         |
| 19.     | 111262022026 | PANKAJ KUMAR        |
| 20.     | 111262022027 | PRIYANSU RAJ        |
| 21.     | 111262022029 | NIDHI KUMARI        |
| 22.     | 111262022030 | ANNU KUMARI         |
| 23.     | 111262022301 | CHANDAN KUMAR SINGH |
| 24.     | 311262022401 | SUMIT KUMAR         |
| 25.     | 311262022402 | KUNDAN KUMAR        |
| 26.     | 311262022404 | SANDEEP KUMAR       |
| 27.     | 311262022405 | SIMPI KUMARI SINHA  |
| 28.     | 311262022601 | SHIVANI KUMARI      |
| 29.     | 311262022602 | WANDANA KUMARI      |
| 30.     | 311262022603 | PRITAM KUMAR        |

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**Success Index of Students without the backlog (Y)**

**Batch: 2022-25**

| Sl. No. | Roll no.     | Student Name   |
|---------|--------------|----------------|
| 1.      | 611262022001 | GULSHAN KUMAR  |
| 2.      | 611262022010 | SHYAM KUMAR    |
| 3.      | 611262022014 | AVINASH KUMAR  |
| 4.      | 611262022019 | RAUSHAN RAJ    |
| 5.      | 611262022020 | PRASHANT KUMAR |
| 6.      | 611262022021 | SHIVAM KUMAR   |
| 7.      | 611262022022 | SOURABH KUMAR  |

**Success Index [  $SI = Y / X$  ] =  $7/30 = 0.24$**



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**GOVERNMENT POLYTECHNIC LAKHISARAI**  
**Department of Electrical engineering**

**Total no. of students admitted in 1<sup>st</sup> sem and 3<sup>rd</sup> sem(LE) (X)**

**Batch: 2021-24**

| Sl. No. | Roll no.     | Student Name       |
|---------|--------------|--------------------|
| 1.      | 111262021001 | PRASHANT KUMAR     |
| 2.      | 111262021002 | SHUBHAM KUMAR      |
| 3.      | 111262021003 | ALOK RAJ           |
| 4.      | 111262021004 | VIKAS KUMAR        |
| 5.      | 111262021005 | AJEET KUMAR        |
| 6.      | 111262021006 | RAJNANDNI KUMARI   |
| 7.      | 111262021007 | RAVIRAJ KUMAR      |
| 8.      | 111262021008 | SHIVAM KUMAR       |
| 9.      | 111262021010 | KRISH KUMAR        |
| 10.     | 111262021011 | PRATIK KUMAR       |
| 11.     | 111262021013 | ANKIT KUMAR        |
| 12.     | 111262021014 | VISHAL KUMAR       |
| 13.     | 111262021016 | AKASH KUMAR        |
| 14.     | 111262021017 | JUHI KUMARI        |
| 15.     | 111262021018 | DIKSHA BHARTI      |
| 16.     | 111262021019 | GHANSHYAM KUMAR    |
| 17.     | 111262021020 | NAYAN KUMAR        |
| 18.     | 111262021021 | ABHISHEK KUMAR     |
| 19.     | 111262021022 | AMIT RAJ           |
| 20.     | 111262021023 | PINTU KUMAR        |
| 21.     | 111262021025 | PARIKSHIT KUMAR    |
| 22.     | 111262021027 | ANKIT CHAUDHARY    |
| 23.     | 111262021028 | SAURAV KUMAR       |
| 24.     | 111262021029 | SURAJ KUMAR        |
| 25.     | 111262021030 | SURAJ DEV          |
| 26.     | 111262021031 | CHANDAN KUMAR      |
| 27.     | 111262021301 | NITISH KUMAR       |
| 28.     | 311262021401 | KUMAR AARSH PRATAP |
| 29.     | 311262021602 | SAROJ KUMAR        |

  
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**GOVERNMENT POLYTECHNIC LAKHISARAI**  
**Department of Electrical engineering**

**Success Index of Students without the backlog (Y)**

**Batch: 2021-24**

| Sl. No. | Roll no.     | Student Name  |
|---------|--------------|---------------|
| 1.      | 611262021002 | SHUBHAM KUMAR |
| 2.      | 611262021004 | VIKAS KUMAR   |
| 3.      | 611262021007 | RAVIRAJ KUMAR |
| 4.      | 611262021017 | JUHI KUMARI   |
| 5.      | 611262021018 | DIKSHA BHARTI |
| 6.      | 611262021022 | AMIT RAJ      |

**Success Index [  $SI = Y / X$  ] =  $6/29 = 0.21$**



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# GOVERNMENT POLYTECHNIC LAKHISARAI

## Department of Electrical engineering

Total no. of students admitted in 1<sup>st</sup> sem and 3<sup>rd</sup> sem(LE) (X)

Batch: 2020-23

| Sl. No. | Roll no.     | Student Name     |
|---------|--------------|------------------|
| 1.      | 111262020001 | SANIYA KUMARI    |
| 2.      | 111262020002 | ABHILESH KUMAR   |
| 3.      | 111262020003 | KRISHNA KUMAR    |
| 4.      | 111262020004 | NITIN KUMAR      |
| 5.      | 111262020005 | VIKASH KUMAR     |
| 6.      | 111262020006 | SHUBHAM KUMAR    |
| 7.      | 111262020007 | AYUSHI VERMA     |
| 8.      | 111262020008 | VISHAL KUMAR     |
| 9.      | 111262020010 | MANISH KUMAR     |
| 10.     | 111262020011 | RITIK RAJ        |
| 11.     | 111262020012 | NITISH KUMAR     |
| 12.     | 111262020013 | AMAN KUMAR       |
| 13.     | 111262020014 | GUDDU KUMAR      |
| 14.     | 111262020015 | PRABHAT KUMAR    |
| 15.     | 111262020016 | SUBODH KUMAR     |
| 16.     | 111262020018 | SWARAJ KUMAR     |
| 17.     | 111262020019 | NANDAN KUMAR     |
| 18.     | 111262020020 | ADITYA RAJ       |
| 19.     | 111262020021 | UDAY KUMAR       |
| 20.     | 111262020022 | BINITA KUMARI    |
| 21.     | 111262020023 | HIRDAY KUMAR     |
| 22.     | 111262020024 | JAYNANDAN KUMAR  |
| 23.     | 111262020026 | ANSHU KUMAR      |
| 24.     | 111262020027 | RASHBIHARI KUMAR |
| 25.     | 111262020028 | LALU KUMAR       |
| 26.     | 111262020030 | AMARJEET KUMAR   |
| 27.     | 111262020031 | CHHOTI KUMARI    |
| 28.     | 311262020401 | BIKKY KUMAR      |
| 29.     | 311262020601 | SHIVAM BHARTI    |
| 30.     | 311262020602 | RAUSHAN KUMAR    |
| 31.     | 311262020603 | SHRINIBAS KUMAR  |

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**GOVERNMENT POLYTECHNIC LAKHISARAI**  
**Department of Electrical engineering**

**Success Index of Students without the backlog (Y)**

**Batch: 2020-23**

| Sl. No. | Roll no.     | Student Name  |
|---------|--------------|---------------|
| 1.      | 611262020001 | SANIYA KUMARI |
| 2.      | 611262020004 | NITIN KUMAR   |
| 3.      | 611262020007 | AYUSHI VERMA  |
| 4.      | 611262020008 | VISHAL KUMAR  |
| 5.      | 611262020010 | MANISH KUMAR  |
| 6.      | 611262020019 | NANDAN KUMAR  |

**Success Index [  $SI = Y / X$  ] =  $6/31 = 0.19$**

  
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# GOVERNMENT POLYTECHNIC LAKHISARAI

(Department of Electrical Engineering)

## PLACEMENT AND HIGHER STUDIES

| Item                                                                                         | LYG<br>(2024-25) | LYGm1<br>(2023-24) | LYGm2<br>(2022-23) |
|----------------------------------------------------------------------------------------------|------------------|--------------------|--------------------|
| Total No of Final Year Students (N)                                                          | 21               | 24                 | 23                 |
| No of students placed in the companies<br>or government sector (X)                           | 10               | 10                 | 09                 |
| No of students admitted to higher<br>studies (Y)                                             | 6                | 3                  | 2                  |
| No. of students turned entrepreneur in<br>the respective field of engineering/technology (Z) | 0                | 0                  | 0                  |
| Placement Index $\{[(1.25 * X) + Y + Z] / N\}$                                               | 0.88             | 0.64               | 0.59               |
| Average Placement                                                                            | 0.70             |                    |                    |

  
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**GOVERNMENT POLYTECHNIC LAKHISARAI**  
(Department of Electrical Engineering)

**7.4 Improvement in Academic Performance in Final year**

| Academic Performance                                          | LYG<br>(2022-23) | LYG m1<br>(2021-22) | LYG m2<br>(2020-21) |
|---------------------------------------------------------------|------------------|---------------------|---------------------|
| Mean of CGPA or mean percentage of all successful students(X) | 8.38             | 8.54                | 8.08                |
| Total number of successful students(Y)                        | 16               | 18                  | 16                  |
| Total number of students appeared in the examination(Z)       | 19               | 21                  | 19                  |
| API [ $X*(Y/Z)$ ]:                                            | 7.06             | 7.32                | 6.8                 |
| Average API [ $(AP1 + AP2 + AP3)/3$ ]                         | 7.06             |                     |                     |

  
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**Office of the Principal**  
**GOVERNMENT POLYTECHNIC LAKHISARAI**  
(North of Vidyapeeth Chowk, Lakhisarai – 811311)

**Office Order**

**Constitution of Internal Academic Audit Committee (IAAC)**

Date: 05.07.2022

Order No.: 125

In order to strengthen the internal academic quality assurance system and to ensure systematic review of academic planning, teaching-learning, assessment, laboratory/workshop activities, student support and Outcome Based Education (OBE), the Internal Academic Audit Committee (IAAC) is hereby constituted for the Department of Mechanical Engineering. The committee shall function in coordination with the institutional IQAC/quality assurance mechanism.

**Composition of the Committee**

| Sl. No. | Name                                   | Designation                     | Role                                               |
|---------|----------------------------------------|---------------------------------|----------------------------------------------------|
| 1       | Dr. R.K Ranjan                         | Principal                       | Chairperson                                        |
| 2       | Shri Rajesh Kumar                      | H.O.D., Electrical Engineering  | Member / Academic Coordinator/Departmental Auditor |
| 3       | Dr. Rakesh Ranjan                      | Lecturer                        | Member                                             |
| 4       | Shri Saurav Kumar                      | NBA Coordinator                 | Member Secretary                                   |
| 5       | IQAC Coordinator / IQAC Representative | Institutional Quality Assurance | IQAC Representative / Quality Monitoring           |
| 6       | Shri Sanjeev Kumar                     | Auditor, Nominated by Principal | Cross-Department Academic Auditor                  |

Note: The Principal may nominate or replace members as required. An external academic/industry expert may be invited for specific academic/technical reviews where considered necessary.

**Reporting & Coordination Mechanism**

The IAAC shall conduct/coordinate detailed academic reviews and submit its observations and action points to the Head of Department. The IQAC representative shall facilitate institutional quality monitoring, review major findings and support follow-up of corrective actions. The NBA Coordinator shall maintain the evidence and accreditation-related documentation.

**Member Core Responsibilities**

- Review academic planning, course delivery and syllabus coverage.
- Review course files, lesson plans, attendance and internal assessment records.
- Review laboratory/workshop teaching, practical records and use of facilities.
- Review mentoring, student support and project/mini-project activities.
- Review CO attainment and PO/PSO attainment and identify gaps.

  
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**Principal**  
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#### RECORDS OF NEW PROGRAM SPECIFIC FACILITIES

##### Summary of Facilities

| Year | Facility               | Type           | Purpose                      | Outcome                    |
|------|------------------------|----------------|------------------------------|----------------------------|
| 2025 | Robotics Lab           | Advanced Lab   | Automation & robotics skills | Improved project work      |
| 2024 | Dedicated Language Lab | Skill Lab      | Communication skills         | Better placement           |
| 2024 | SolidWorks Software    | Design Tool    | 3D design skills             | Improved design capability |
| 2023 | Electric Vehicle Lab   | Emerging Tech  | EV technology training       | Industry readiness         |
| 2021 | E-Yantra Lab           | Innovation Lab | Embedded systems & robotics  | Student innovation         |

#### Detailed Facilities

##### Robotics Lab (2025)

Established to provide hands-on robotics training.

Proceedings: Approved by department, lab setup completed.

Utilization: Projects, workshops.

Outcome: Increased student innovation.

| Facility Name       | Details                                                                                        | Utilization                                                      | Areas in which students are expected to have enhanced learning                                       | Relevance to POs, PSOs                   |
|---------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------|
| Robotics Laboratory | Robotics trainer kits, sensors, actuators, microcontrollers, robotic arms and automation setup | For practical classes, mini projects, workshops and competitions | Students enhance knowledge in robotics, automation, programming, problem solving and control systems | PO1, PO2, PO3, PO4, PO6, PO7, PS01, PS02 |

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